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[redacted]

SUMMARY

PHOTOGRAPHIC INTERPRETATION REPORT

25X1C

VITAL RECORDS COPY

SOUTHEAST ASIA ACTIVITY REPORT

SELECTED RADAR SITES

NORTH VIETNAM

NPIC/R-32/67
MAY 1967

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9	16	68	CRS/OLB		1	44
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TITLE

NPIC/R-32/67 May 1967 C/NOFORN EXCEPT [redacted] 25X1C

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INTRODUCTION

This report is an NPIC study designed to present an overall view of the radar facilities in North Vietnam. It is not all-inclusive, since it will contain only those sites which have been observed on aerial photography. Periodic supplements will be disseminated as new radar sites are identified or better photography becomes available on previously identified sites. Fire control radar for antiaircraft artillery or missiles will not be reported.

The study is divided into 4 categories:

CATEGORY A. Air Warning/Ground Controlled Intercept (AW/GCI). These are multiple radar sites which contain a variety of electronic equipment and have a capability for the determination of the range, bearing, altitude, and identification, friend or foe (IFF) of aircraft. However, all sites which include a TOKEN-type or BAR LOCK-type radar will be included in this category even if associated heightfinding or IFF radar cannot be identified.

CATEGORY B. Air Search. These are normally singly deployed radars which have either limited or no heightfinding capability. Acquisition radars which are associated with AAA or SAM sites will not be reported.

CATEGORY C. Surface Search. These radars are normally deployed on high ground along the coast or on offshore islands and are used to locate and track shipping.

CATEGORY D. Ground Controlled Approach (GCA). These radars are located at airfields and provide an all-weather capacity.

The introduction to each of the categories contains a table of contents and a small-scale plot map. A photographic analysis of the referenced photography, a large-scale plot map, and a photograph are provided for each item.

The type of photography utilized in this report limits mensuration; therefore, all measurements are necessarily approximate.

Since most radar equipment in North Vietnam is mobile and may be readily moved from one location to another, sites will not be deleted from the report and no attempt will be made to report the current operational status of any radar site.

Electronic order-of-battle publications are frequently keyed to a number which is identical to the last part of the BE number and should be consulted for the current status of radar sites.

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CATEGORY A

AIR WARNING/GROUND CONTROLLED INTERCEPT

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CATEGORY A

Air Warning/Ground Controlled Intercept

The North Vietnamese employ a single TOKEN-type radar (usually BAR LOCK or BIG BAR) and a single heightfinder (normally SIDE NET or ROCK CAKE/ STONE CAKE) for air warning/ground controlled intercept (AW/GCI). This is not in accordance with the Soviet practice of providing several similar back-up radars at AW/GCI sites.

The North Vietnamese usually attempt to conceal their GCI sites to protect them from US air strikes; however, well defined sites, such as Thuy Ha (page A-22), have also been constructed.

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TABLE OF CONTENTS CATEGORY A

Map Key	BE No	Name	Page
1	[redacted]	Chuc Son	A-2
2		Hanoi Bac Mai AF	A-4
3		Phuc Yen	A-6
4		Tang My	A-8
5		Thuong Che	A-10
6		Duc Hau	A-12
7		Duc Hau Alternate GCI Site	A-14
8		Ha Dong	A-16
9		Nom Phuong	A-18
10		Kep	A-20
11		Thuy Ha	A-22
12	25X1A	Chieu Dong	A-24
13		Quang Mo	A-26

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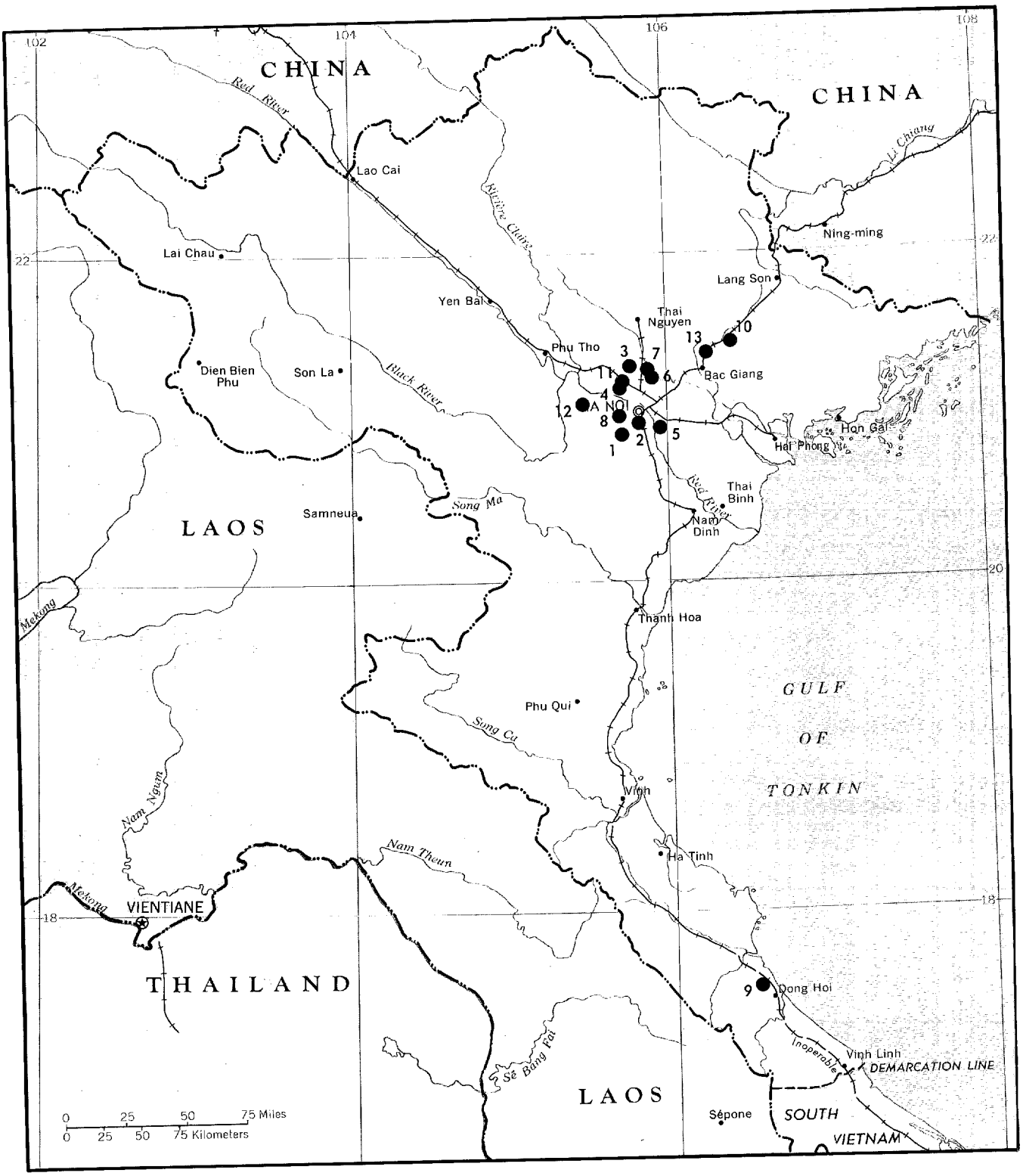

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25X1A

[redacted] WJ742155 UTM COORDINATES 20-56N 105-42E GEOGRAPHIC COORDINATES

NAME: CHUC SON

LOCATION: 4.4 NM SW OF HA DONG

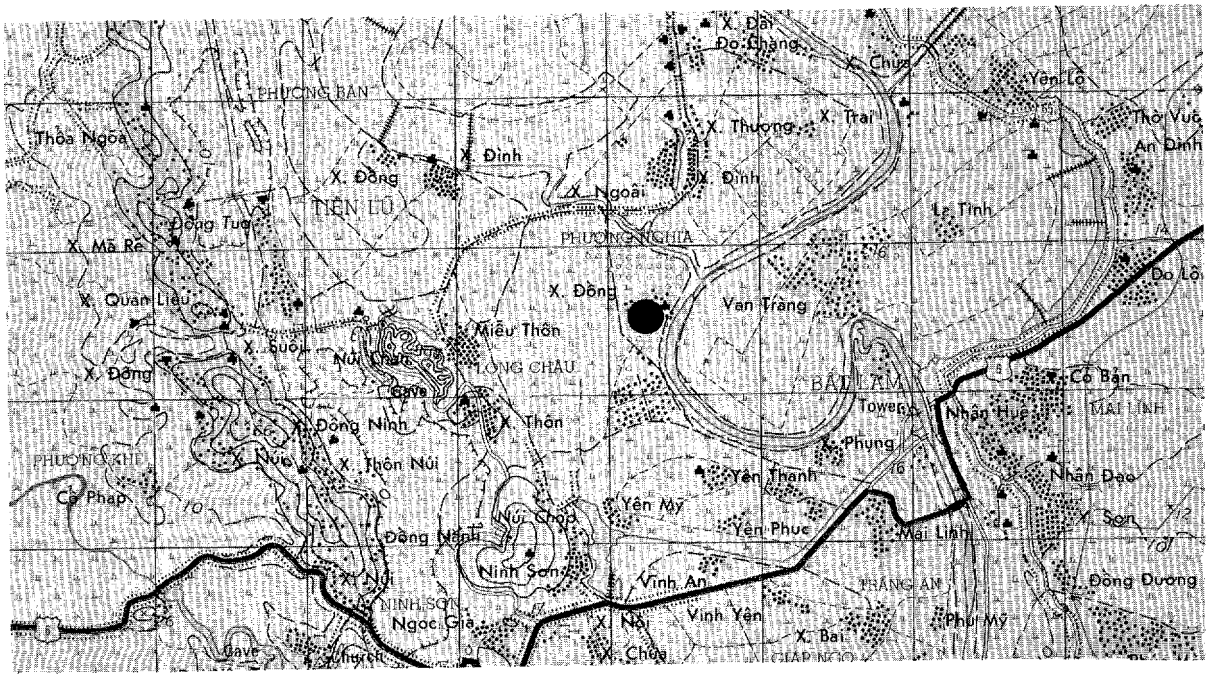
DESCRIPTION: FACILITY CONSISTS OF A BAR LOCK AND A SIDE NET RADAR LOCATED IN A WOODED AREA.

A DRY RACK VIDEO DATA TRANSMISSION ANTENNA IS ADJACENT TO THE SITE.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6150-IV, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-15



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[redacted]

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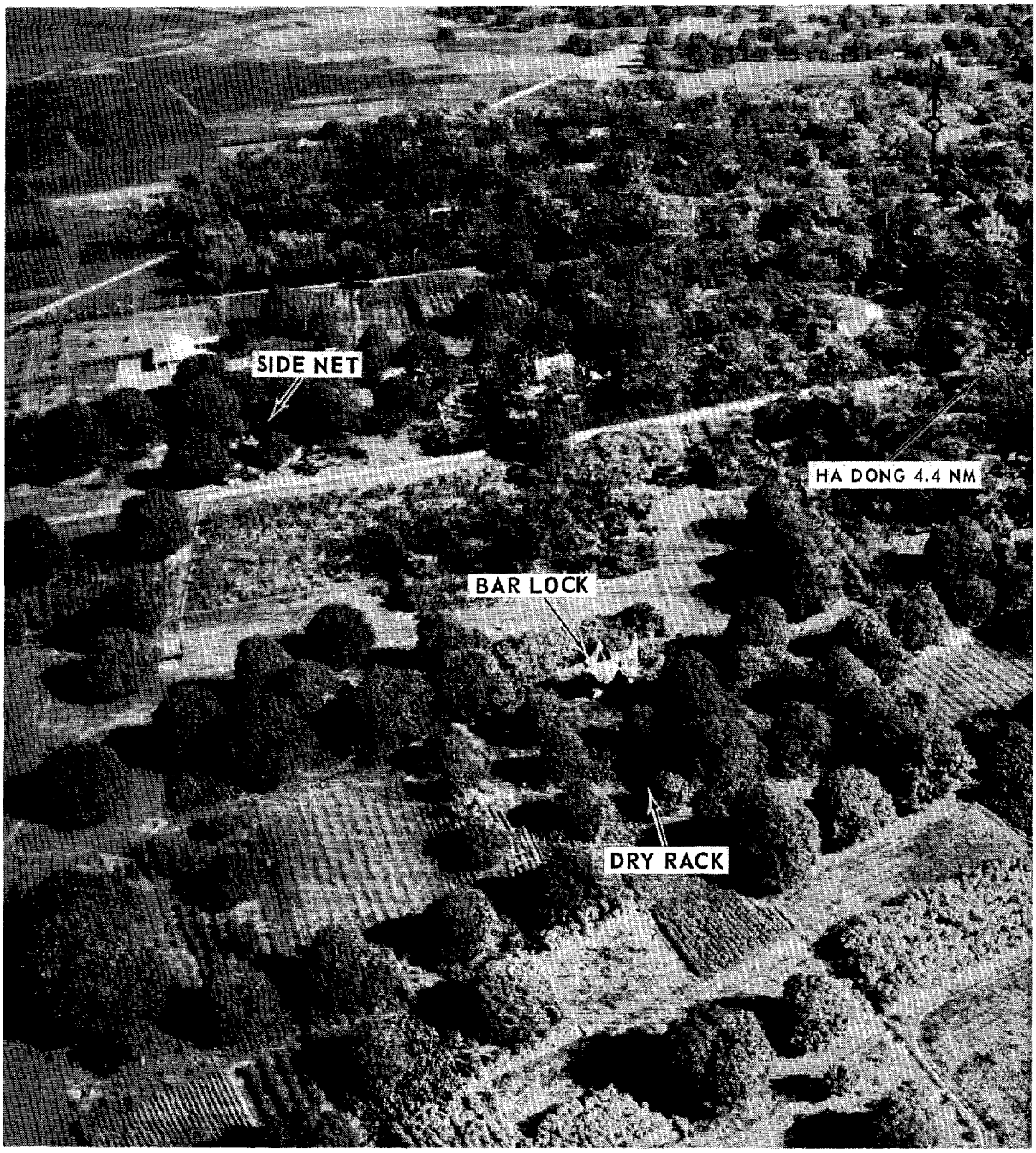
CHUC SON

WJ742155
UTM COORDINATES

20-56N 105-42E
GEOGRAPHIC COORDINATES



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25X1A

[redacted] WJ868212 UTM COORDINATES 20-59N 105-50E GEOGRAPHIC COORDINATES

NAME: HANOI/BAC MAI AIRFIELD AW/GCI SITE

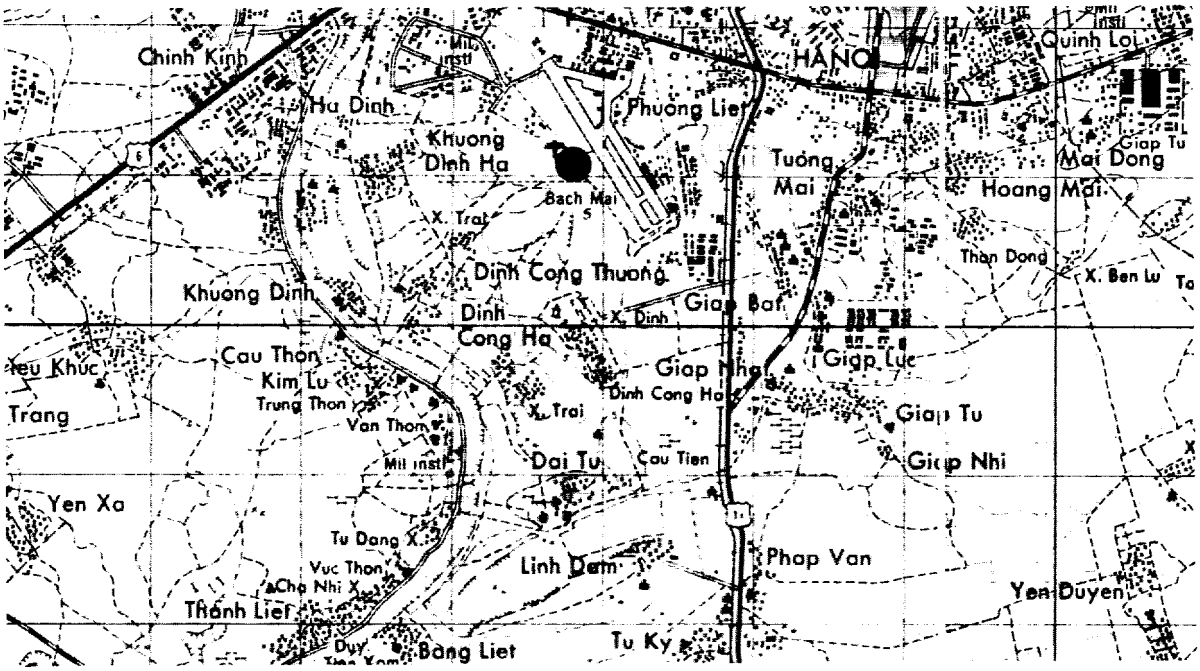
LOCATION: HANOI/BAC MAI AIRFIELD, 2.0 NM SSW OF HA NOI

DESCRIPTION: FACILITY CONSISTS OF A BIG BAR RADAR ON A MOUND ADJACENT TO THE RUNWAY, A ROCK CAKE/STONE CAKE RADAR ON A MOUND NW OF THE BIG BAR, AND A KNIFE REST B RADAR WITHIN A BARRACKS AREA ADJACENT TO THE ROCK CAKE/STONE CAKE. THE REAR ANTENNA REFLECTOR OF THE BIG BAR IS BEING INSTALLED ON, OR REMOVED FROM, THE VAN AT THE TIME OF PHOTOGRAPHY.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6150-I, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-15



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25X1C CONFIDENTIAL [redacted]

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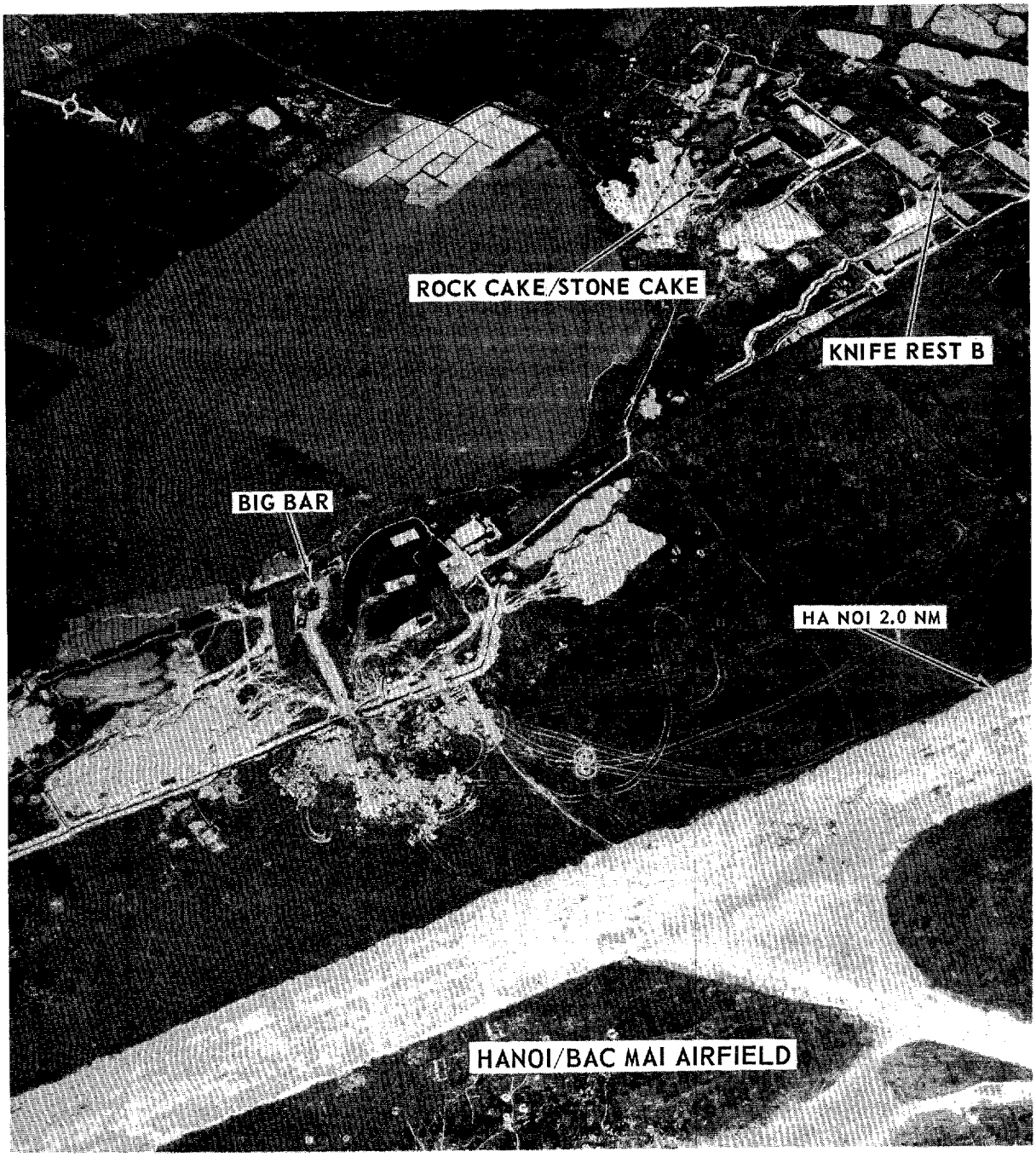
HANOI/BAC MAI AIRFIELD AW/GCI SITE

WJ868212
UTM COORDINATES

20-59N 105-50E
GEOGRAPHIC COORDINATES



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BE NUMBER	WJ833452 UTM COORDINATES	21-12N 105-48E GEOGRAPHIC COORDINATES

NAME: PHUC YEN

LOCATION: 1.0 NM SOUTH OF THE PHUC YEN AIRFIELD

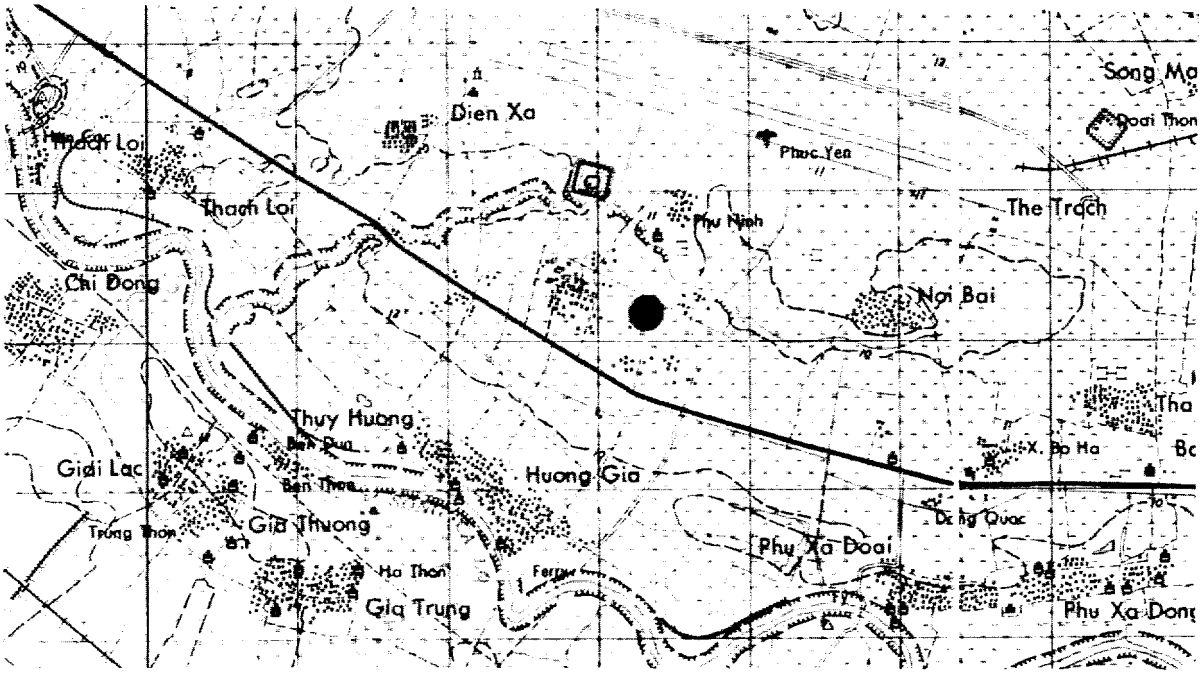
DESCRIPTION: PERMANENT SITE CONSISTS OF 2 RADAR MOUNDS, 5 VEHICLE REVETMENTS, AND 1 LARGER REVETMENT.

AT THE TIME OF PHOTOGRAPHY, 1 BAR LOCK WITH END BOX, 1 BIG BAR WITH END BOX, 1 SIDE NET, AND A PROBABLE ROCK CAKE/STONE CAKE WERE IN THE IMMEDIATE VICINITY.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-II, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



[redacted]

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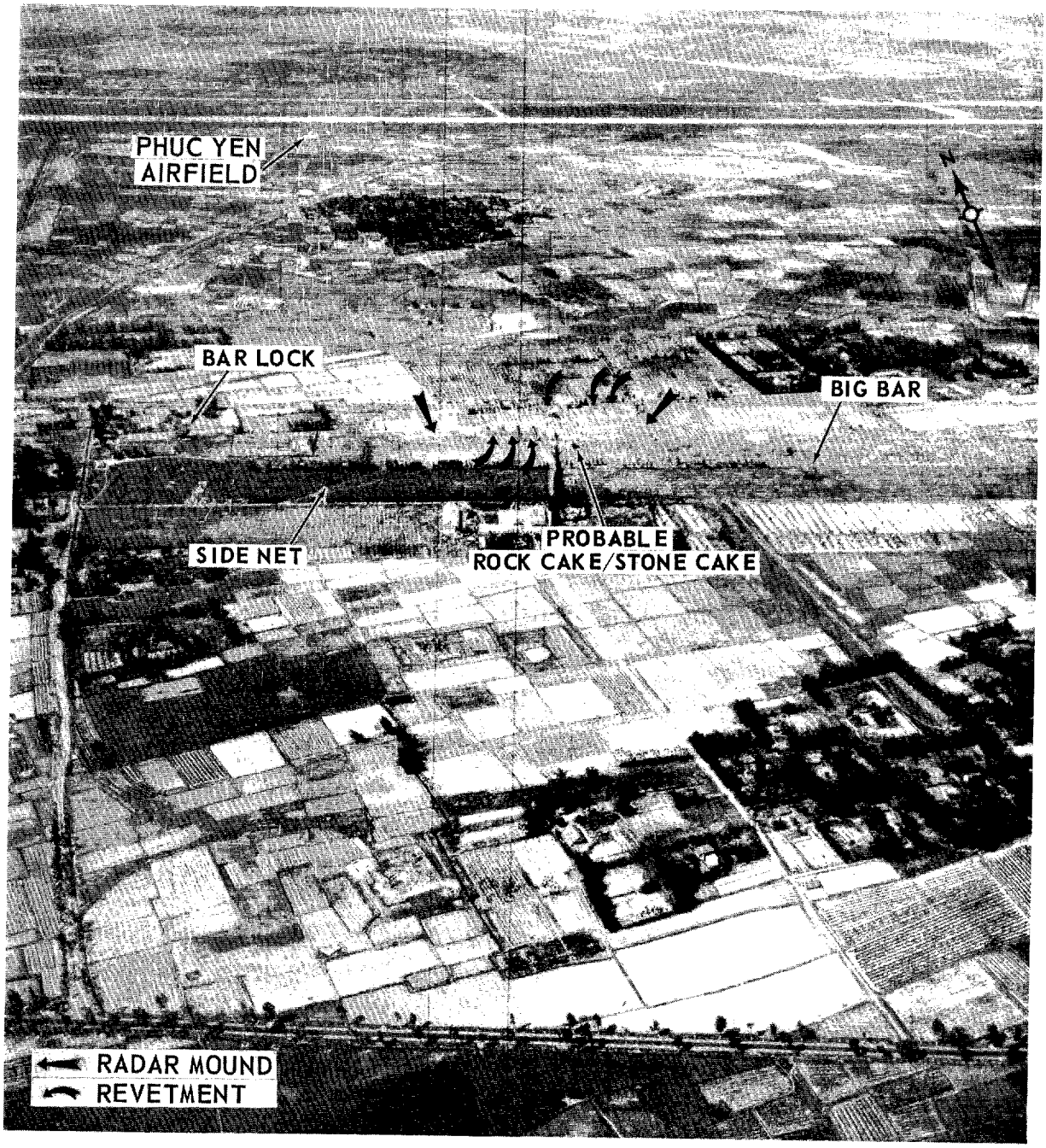
PHUC YEN

WJ833452
UTM COORDINATES

21-12N 105-48E
GEOGRAPHIC COORDINATES



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BE NUMBER	WJ826408 UTM COORDINATES	21-10N 105-47E GEOGRAPHIC COORDINATES

NAME: TANG MY

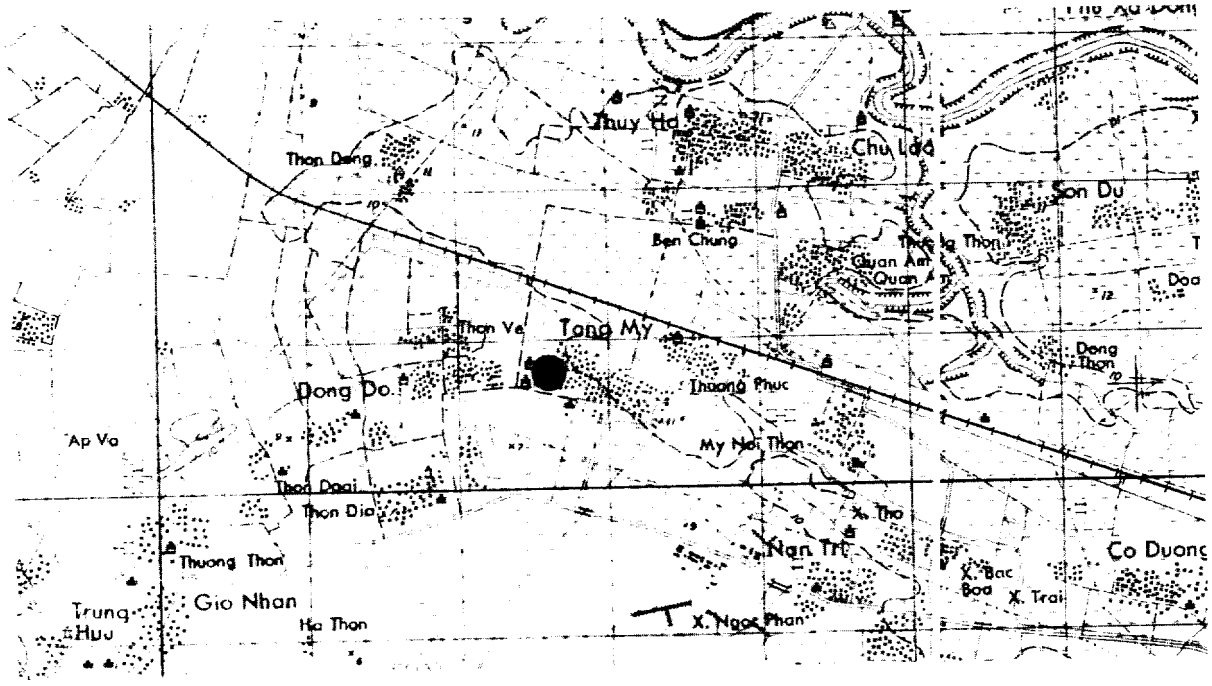
LOCATION: WESTERN EDGE OF TANG MY, 3.2 NM SOUTH OF THE PHUC YEN AIRFIELD

DESCRIPTION: FACILITY CONSISTS OF A PROBABLE BAR LOCK RADAR ON A MOUND, A SIDE NET RADAR, AND AN UNIDENTIFIED PROBABLE RADAR. AT LEAST 8 ASSOCIATED VANS ARE DISCERNIBLE.

25X1D

PHOTO REFERENCES: [redacted]

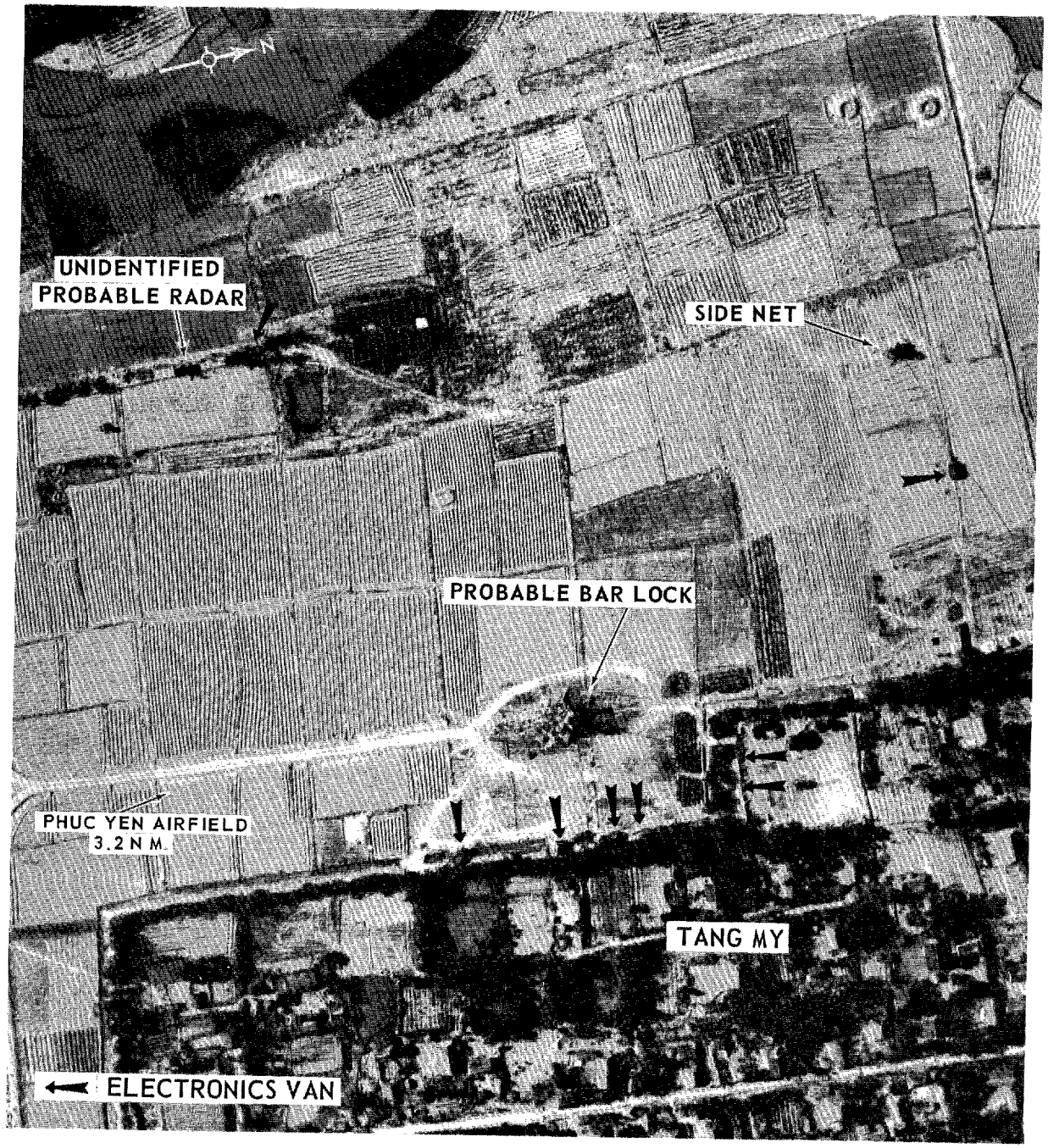
MAP REFERENCES: AMS SERIES L7014, SHEET 6151-II, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



TANG MY

WJ826408
UTM COORDINATES

21-10N 105-47E
GEOGRAPHIC COORDINATES



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BE NUMBER	XJ012186 UTM COORDINATES	20-58N 105-58E GEOGRAPHIC COORDINATES

NAME: THUONG CHE

LOCATION: 0.3 NM WEST OF THUONG CHE AND 6.4 NM SE OF HANO /GIA LAM AIRFIELD

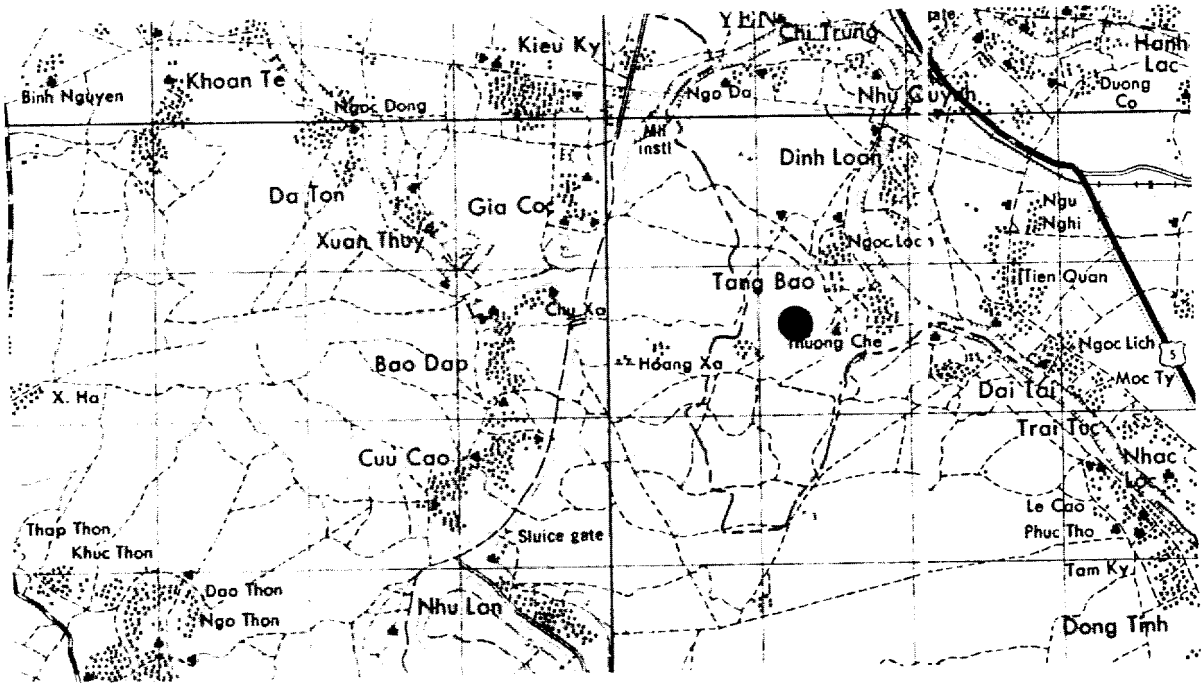
DESCRIPTION: SITE CONSISTS OF A BAR LOCK-TYPE RADAR AND AT LEAST 2 REVETTED VAN TRUCKS.

SIX SUPPORT BUILDINGS ARE ADJACENT TO THE SITE.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6150-I, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-15



Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
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MAY 1967

THUONG CHE

XJ012186
UTM COORDINATES

20-58N 105-58E
GEOGRAPHIC COORDINATES

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25X1A [redacted] WJ919480 UTM COORDINATES 21-13N 105-53E GEOGRAPHIC COORDINATES

NAME: DUC HAU

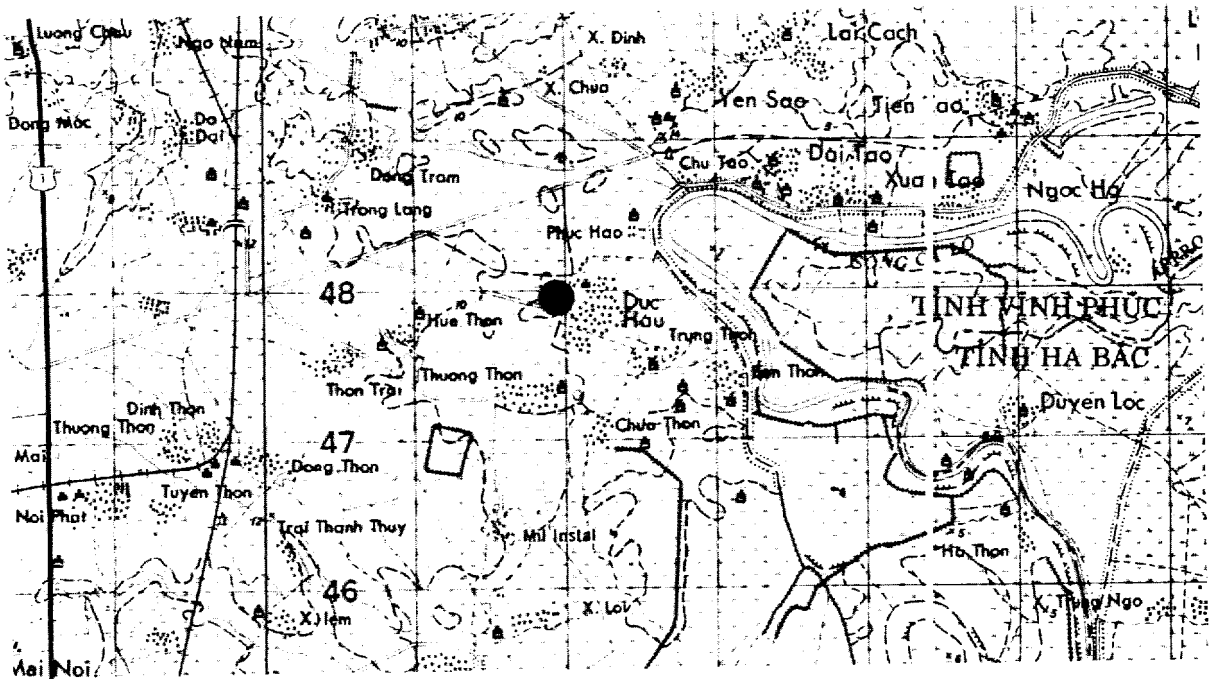
LOCATION: WOODED AREA ON THE WESTERN EDGE OF DUC HAU, 4.0 NM NNE OF THE PHUC YEN AIRFIELD

DESCRIPTION: FACILITY CONSISTS OF A BIG BAR AND A SIDE NET RADAR WITH AT LEAST 5 VAN TRAILERS AND 1 ANTENNA TRANSPORT TRAILER.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-II, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



[redacted]

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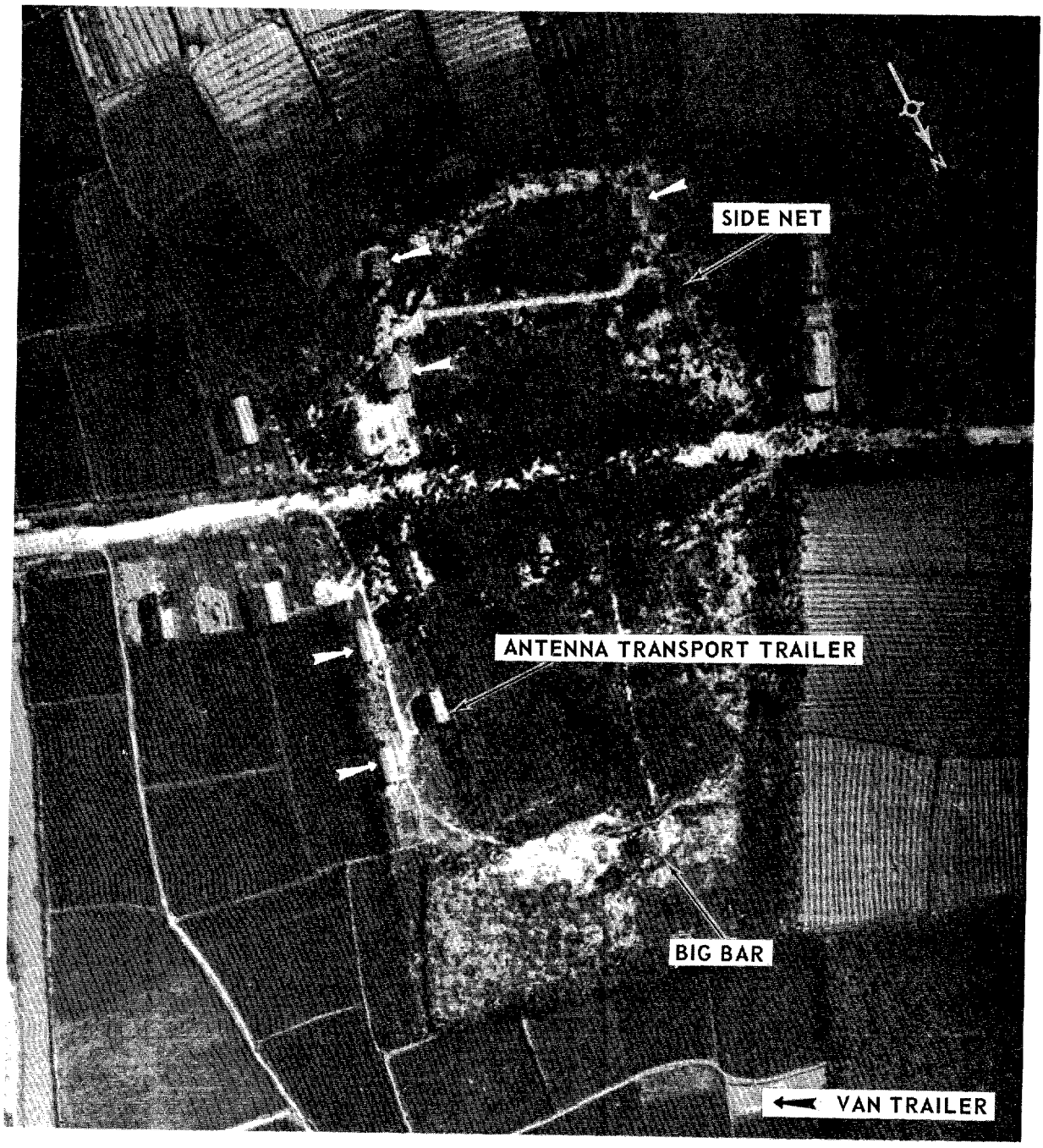
DUC HAU

WJ919480
UTM COORDINATES

21-13N 105-53E
GEOGRAPHIC COORDINATES



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BE NUMBER	WJ915487 UTM COORDINATES	21-14N 105-52E GEOGRAPHIC COORDINATES

NAME: DUC HAU ALTERNATE GCI SITE

LOCATION: 0.6 NM NW OF DUC HAU, 4.2 NM NE OF PHUC YEN AIRFIELD, AND 0.4 NM NNW OF THE DUC HAU GCI SITE

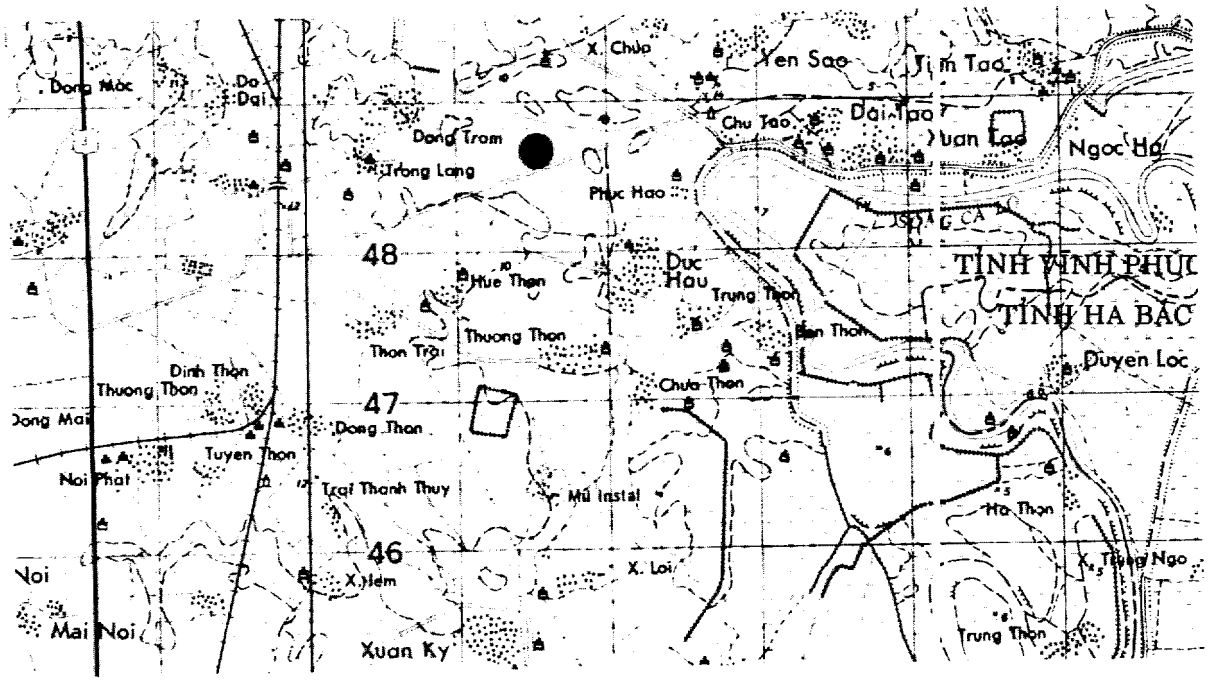
DESCRIPTION: FACILITY CONSISTS OF 2 RADAR MOUNDS AND AT LEAST 6 VEHICLE REVETMENTS.

THIS IS AN ALTERNATE SITE FOR THE RADAR EQUIPMENT AT DUC HAU (PAGE A-12).

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-II, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



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[redacted]

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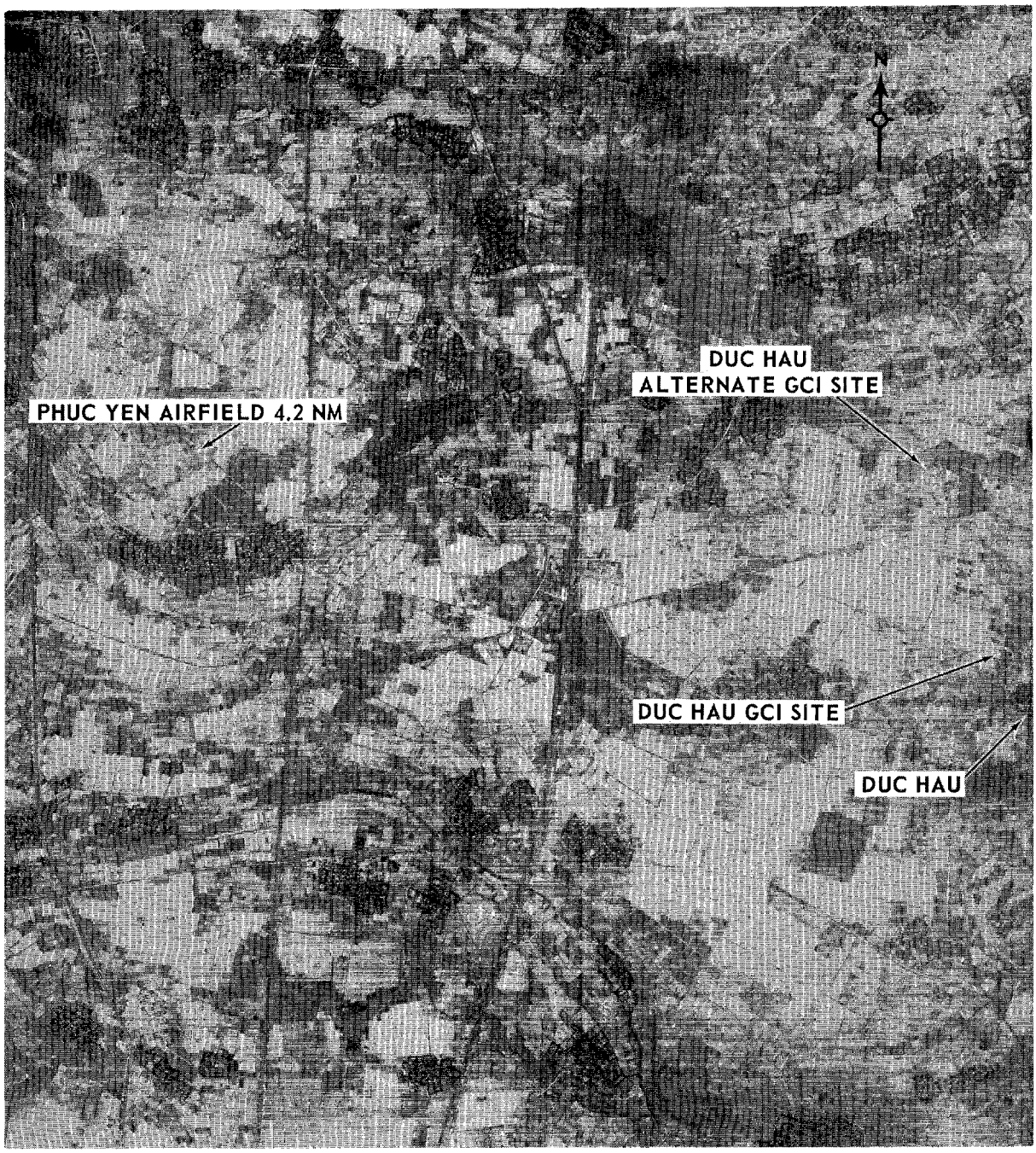
DUC HAU ALTERNATE GCI SITE

WJ915487
UTM COORDINATES

21-14N 105-52E
GEOGRAPHIC COORDINATES



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[redacted] BE NUMBER	WJ759219 UTM COORDINATES	20-39N 105-43E GEOGRAPHIC COORDINATES

NAME: HA DONG

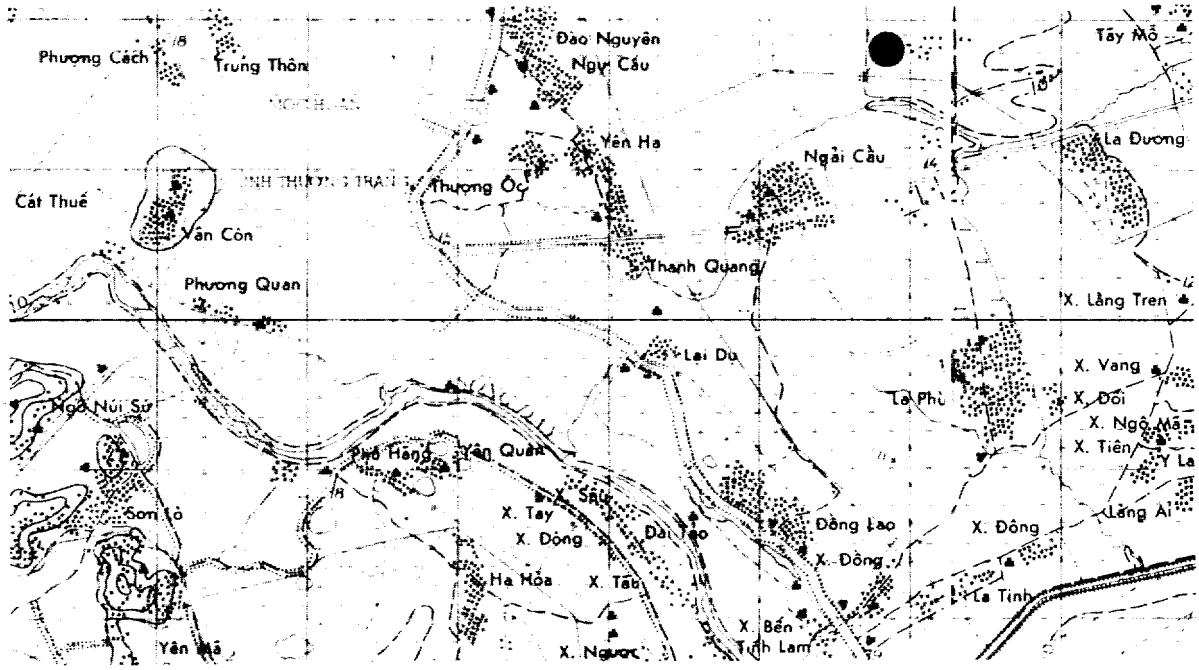
LOCATION: 2.6 NM NW OF HA DONG AND 5.2 NM WEST OF THE HANOI/BAC MAI AIRFIELD

DESCRIPTION: FACILITY CONSISTS OF 1 BAR LOCK AND 1 SIDE NET RADAR ON MOUNDS AND AT LEAST 4 REVETMENTS WITH PROBABLE VAN TRAILERS.

25X1D

PHOTO REFERENCES: [redacted]

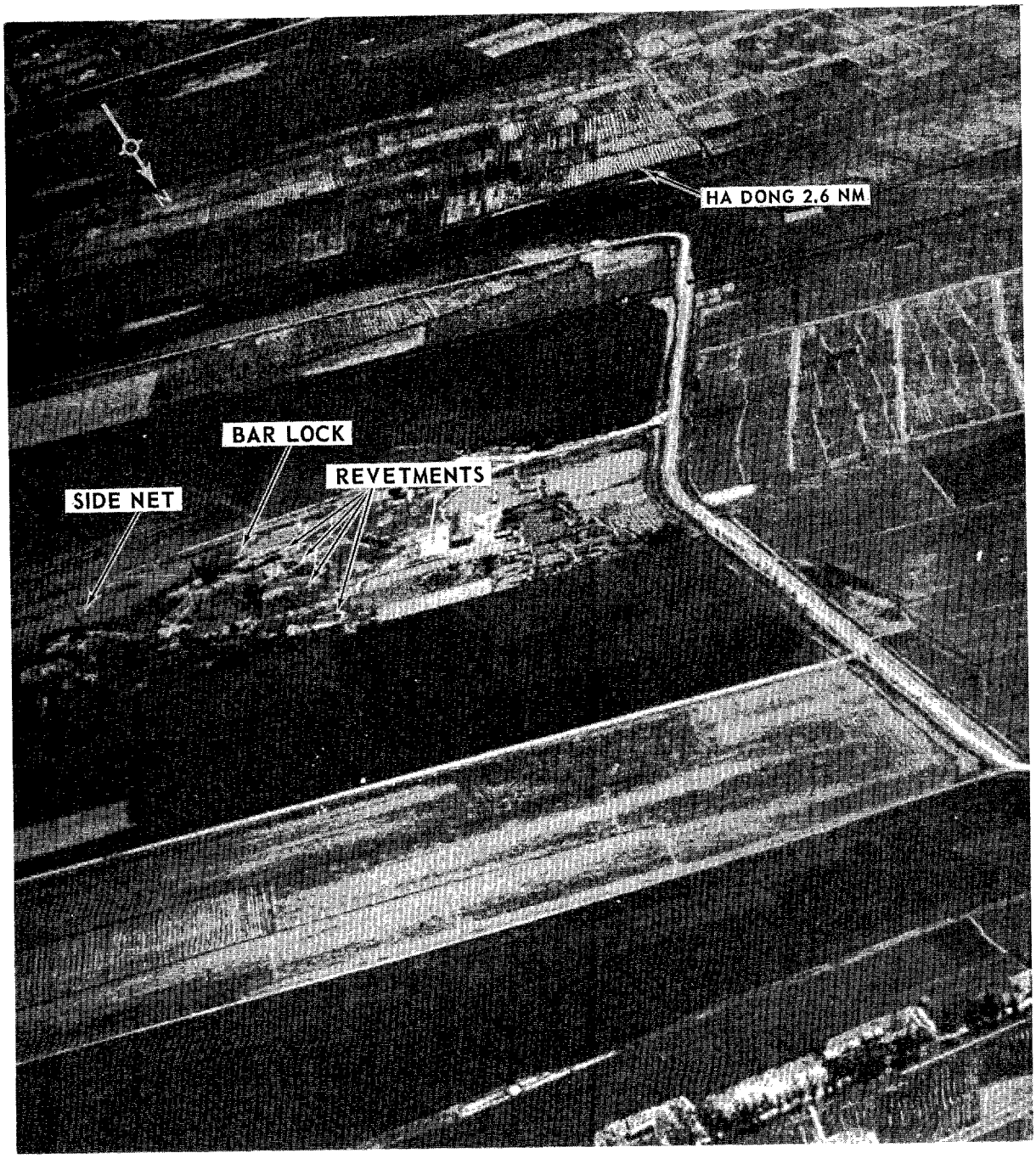
MAP REFERENCES: AMS SERIES L7014, SHEET 6150-IV, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-15



HA DONG

WJ759219
UTM COORDINATES

20-59N 105-43E
GEOGRAPHIC COORDINATES



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BE NUMBER	XE644391 UTM COORDINATES	17-32N 106-32E GEOGRAPHIC COORDINATES

NAME: XOM PHUONG

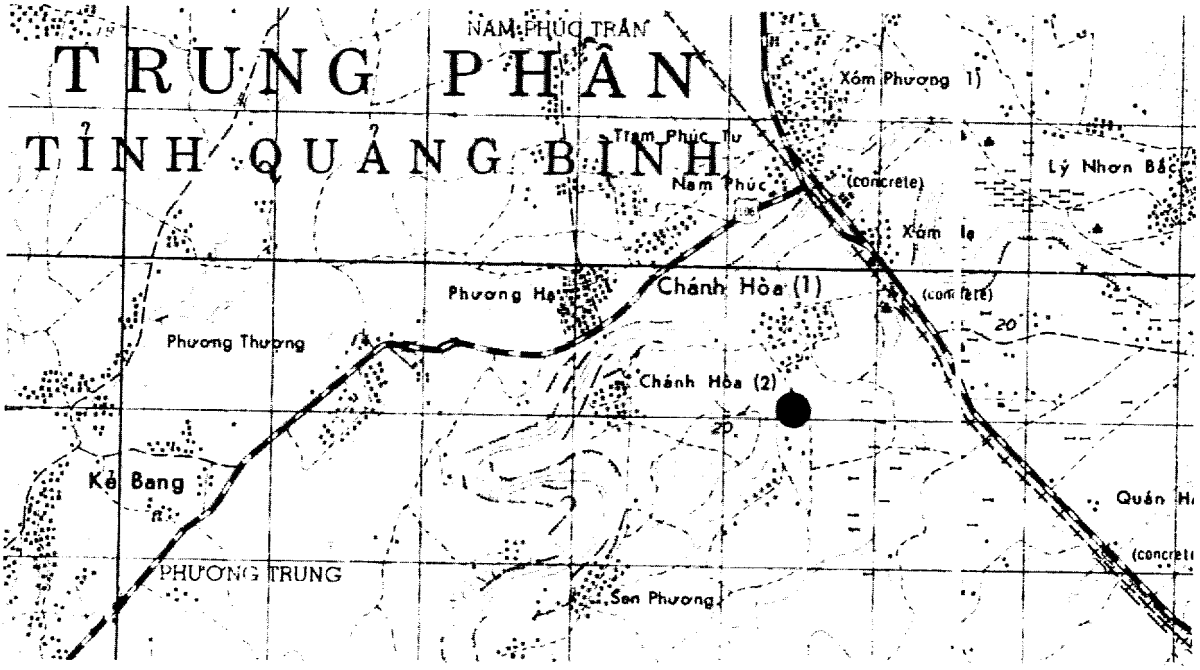
LOCATION: 1.2 NM NORTH OF XOM PHUONG AND 5.8 NM NW OF DONG HOI

DESCRIPTION: FACILITY CONSISTS OF 1 RADAR MOUND AND 4 UNOCCUPIED VEHICLE REVETMENTS.

FIVE VEHICLE REVETMENTS WITH 6 UNIDENTIFIED VEHICLES AND 3 UNOCCUPIED VEHICLE REVETMENTS ARE IMMEDIATELY NORTH OF THE RADAR SITE.

PHOTO REFERENCES: 25X1D [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6344-III, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NE 48-12



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MAY 1967

XOM PHUONG

XE644391
UTM COORDINATES

17-32N 106-32E
GEOGRAPHIC COORDINATES

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[redacted]

25X1A

[redacted] BE NUMBER | XJ336616 UTM COORDINATES | 21-21N 106-17E GEOGRAPHIC COORDINATES

NAME: KEP AW/GCI SITE

LOCATION: 2.7 NM SE OF KEP AIRFIELD

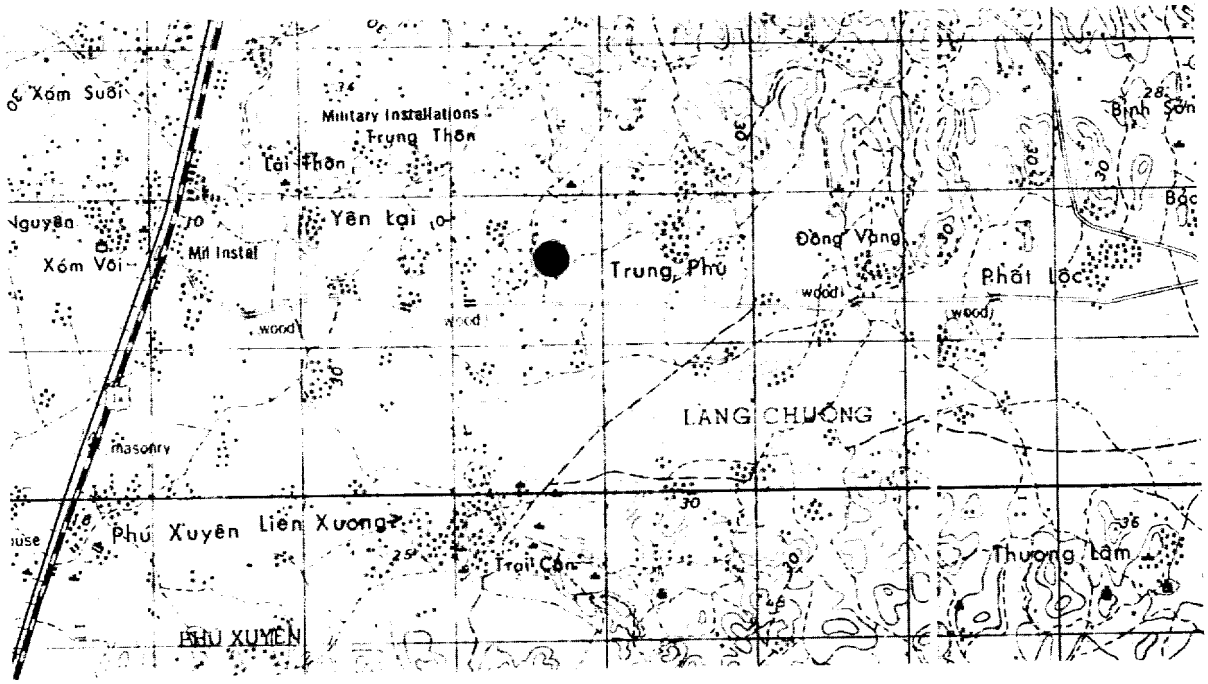
DESCRIPTION: FACILITY CONSISTS OF 1 BIG BAR, 1 ROCK CAKE/STONE CAKE, AND 1 CROSS SLOT RADAR, LOCATED WITHIN AN UNNAMED VILLAGE.

VEHICLE REVETMENTS ARE SCATTERED THROUGHOUT THE AREA. AT LEAST 10 VANS AND TRUCKS ARE OBSERVED IN THE VICINITY.

25X1D

PHOTO REFERENCES: [redacted]

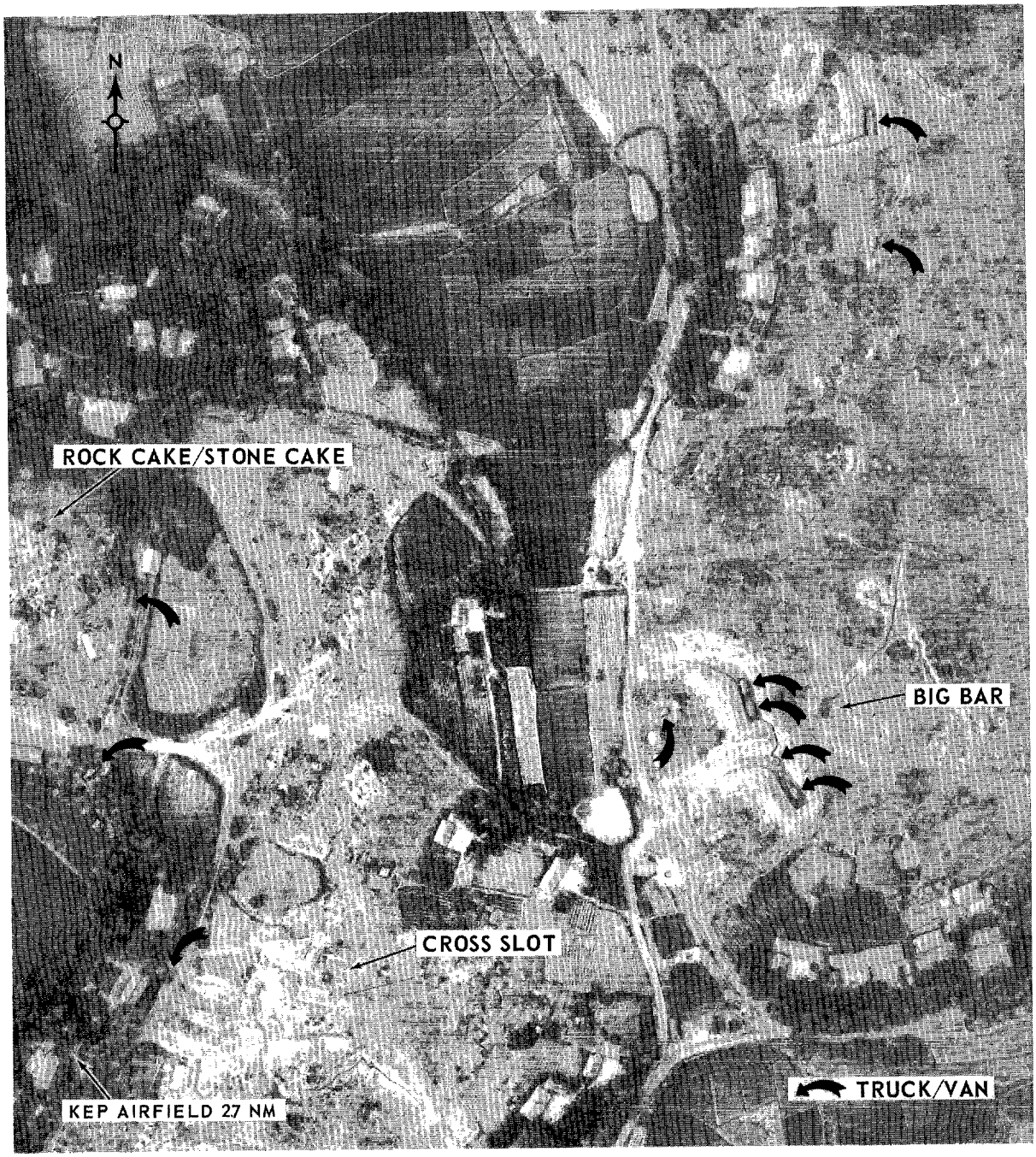
MAP REFERENCES: AMS SERIES L7014, SHEET 6251-I, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



KEP AW/GCI SITE

XJ336616
UTM COORDINATES

21-21N 106-17E
GEOGRAPHIC COORDINATES



BE NUMBER	WJ832426 UTM COORDINATES	21-11N 105-48E GEOGRAPHIC COORDINATES

NAME: THUY HA

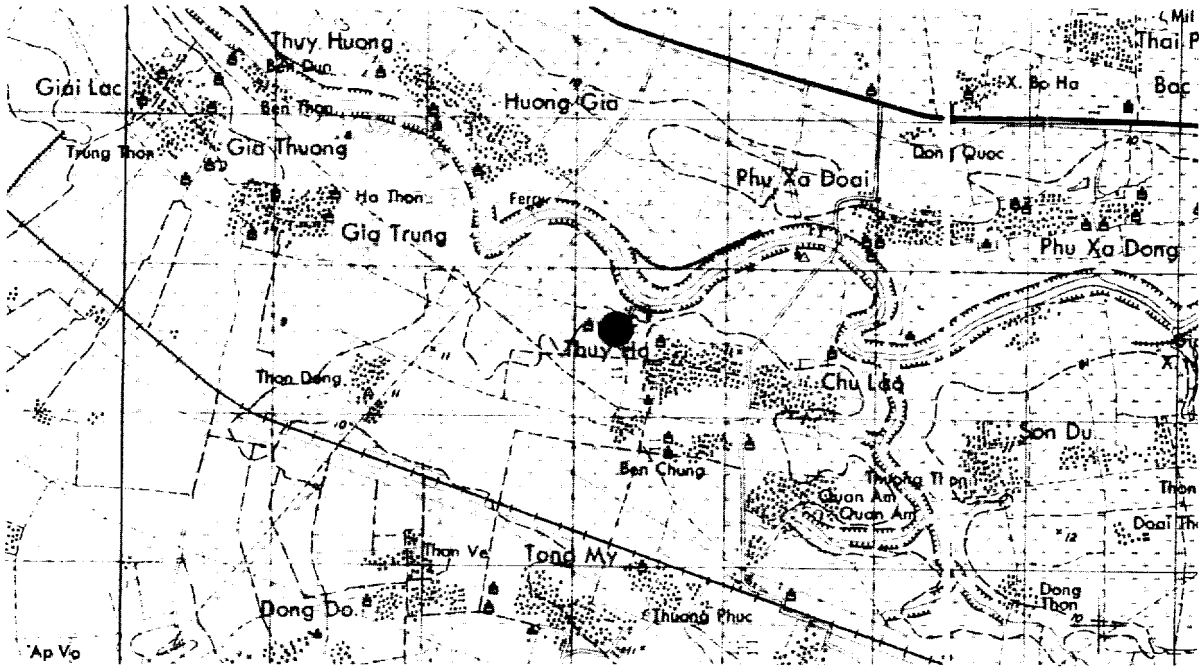
LOCATION: IMMEDIATELY WEST OF THUY HA AND 2.2 NM SOUTH OF THE PHUC YEN AIRFIELD

DESCRIPTION: FACILITY CONSISTS OF 2 RADAR MOUNDS AND 6 VEHICLE REVETMENTS.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-II, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



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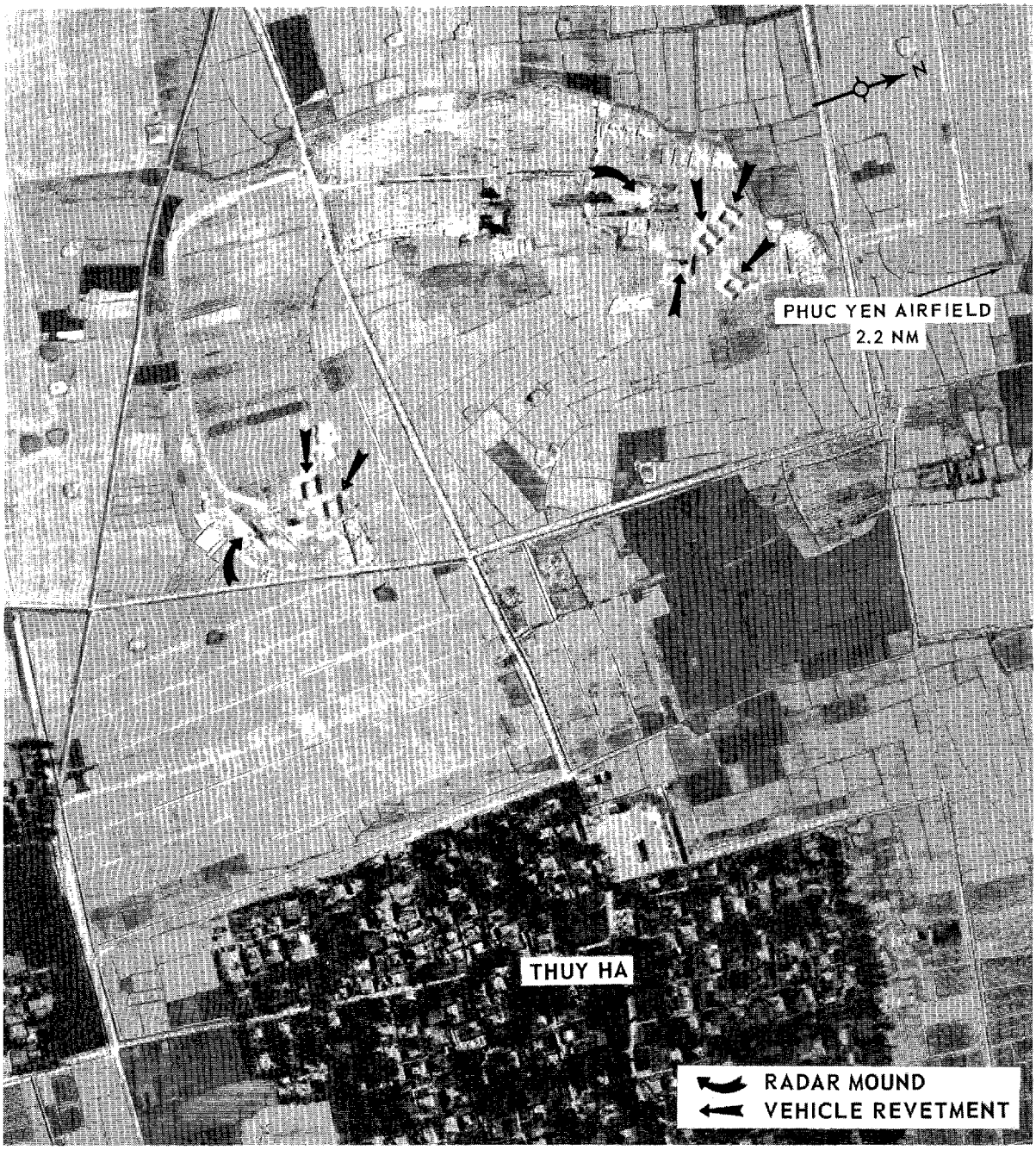
25X1C
CONFIDENTIAL

THUY HA

WJ832426
UTM COORDINATES

21-11N 105-48E
GEOGRAPHIC COORDINATES



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25X1C
CONFIDENTIAL

Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5

BE NUMBER	WJ555304 UTM COORDINATES	21-04N 105-32E GEOGRAPHIC COORDINATES

NAME: CHIEU DONG

LOCATION: 0.3 NM EAST OF CHIEU DONG AND 3.7 NM NE OF HOA LAC AIRFIELD

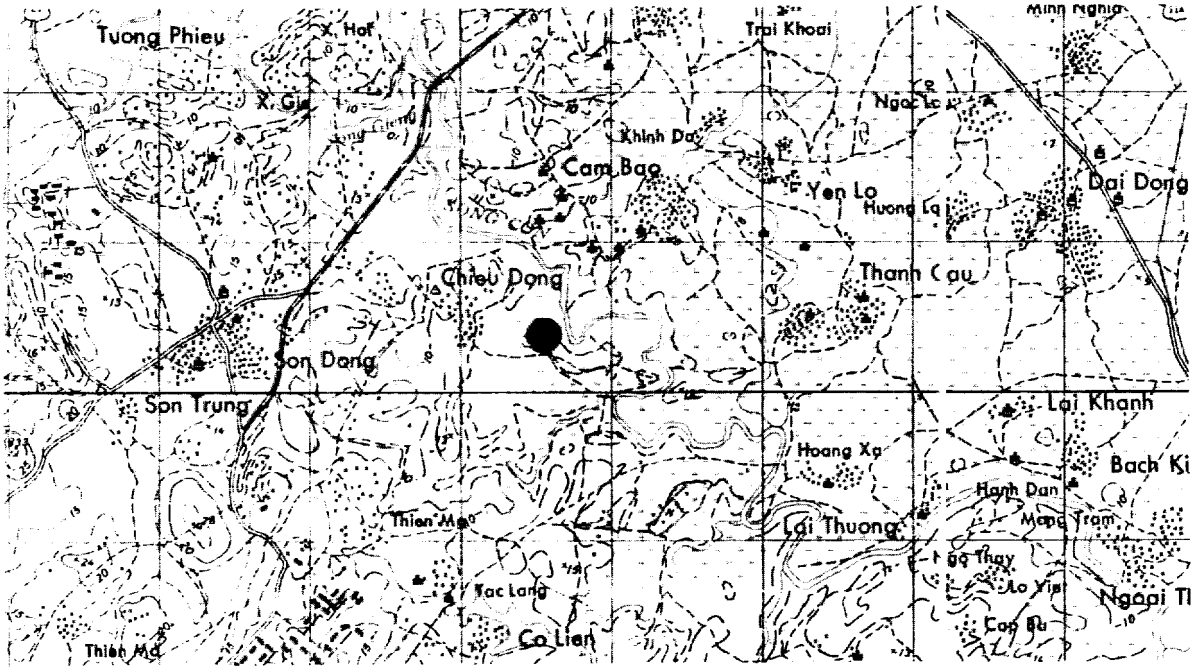
DESCRIPTION: FACILITY CONSISTS OF A SIDE NET AND A BAR LOCK-TYPE RADAR ON MOUNDS.

AT LEAST 4 TRAILER VANS AND 2 UNIDENTIFIED VEHICLES ARE DISCERNIBLE.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-III, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



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[redacted]

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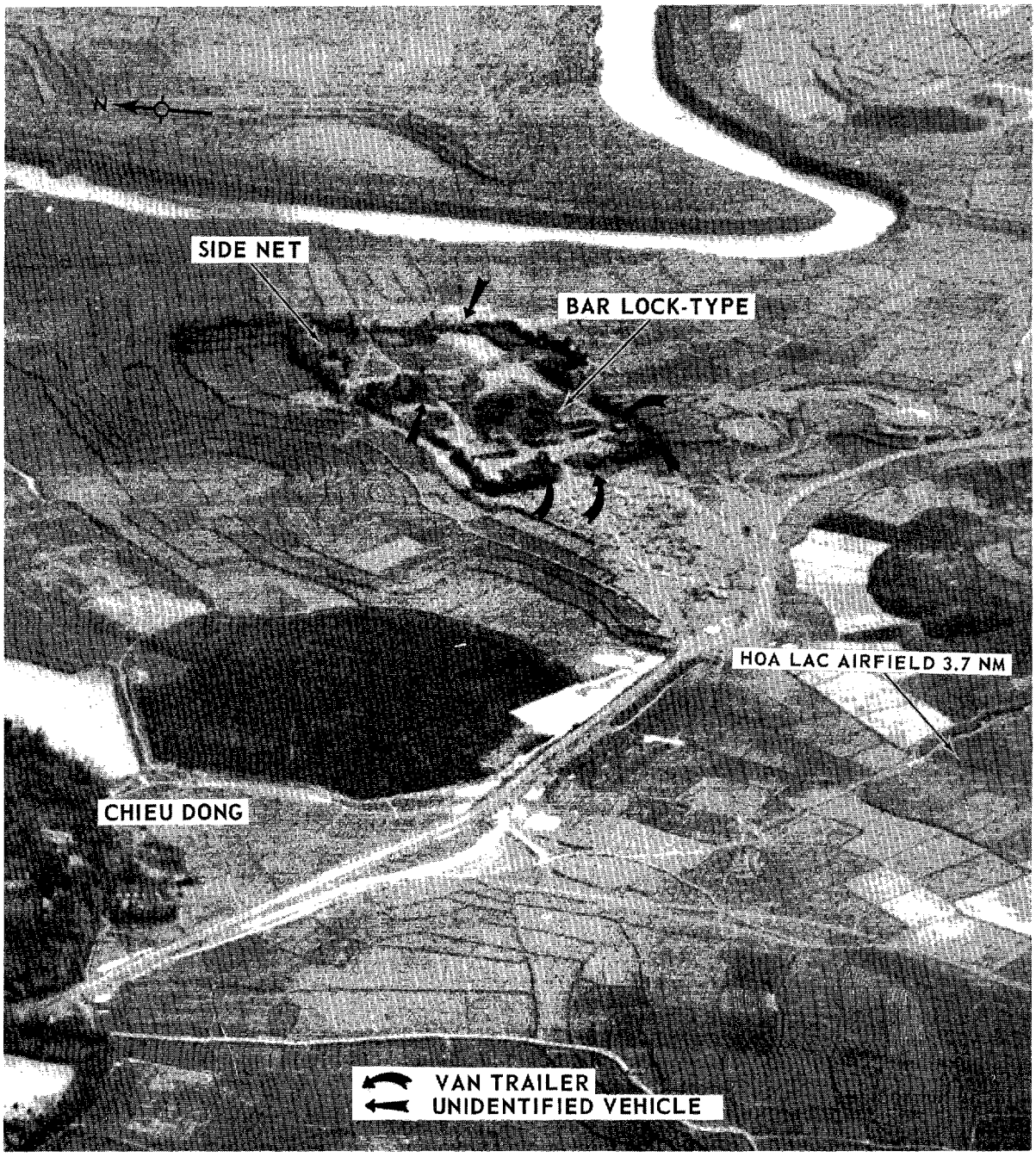
25X1C
CONFIDENTIAL

MAY 1967

CHIEU DONG

WJ555304
UTM COORDINATES

21-04N 105-32E
GEOGRAPHIC COORDINATES



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25X1C
CONFIDENTIAL

Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5

BE NUMBER	XJ282587 UTM COORDINATES	21-19N 106-14E GEOGRAPHIC COORDINATES

NAME: QUANG MO

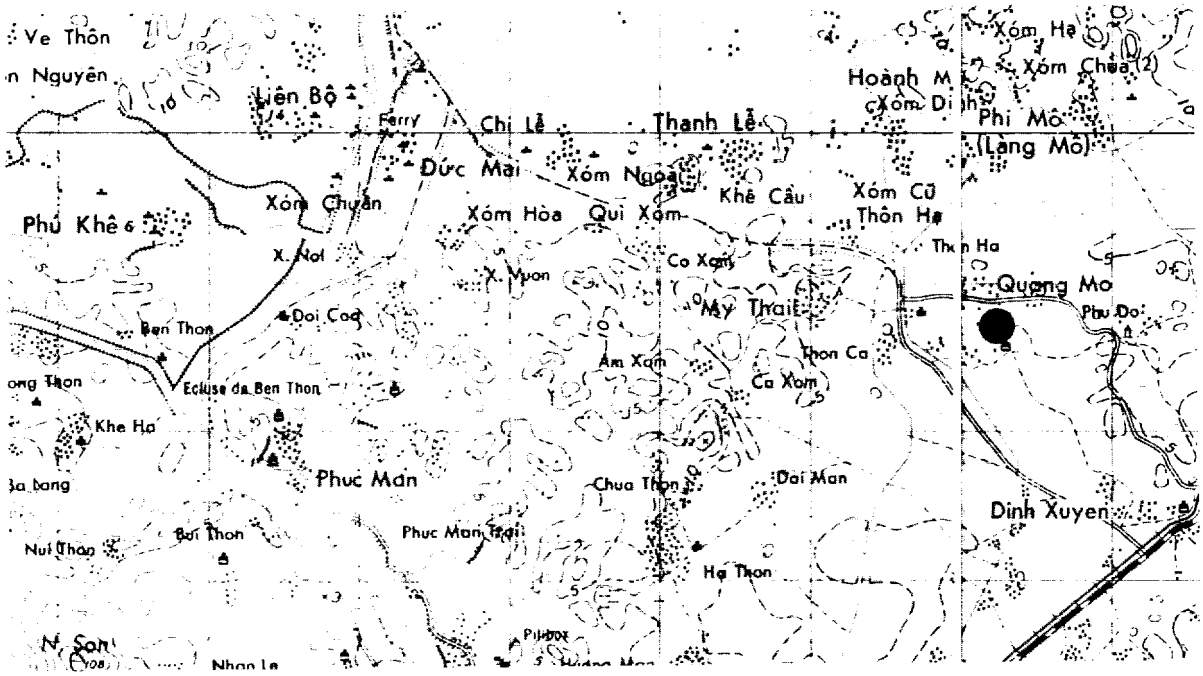
LOCATION: IMMEDIATELY SOUTH OF QUANG MO AND 3.9 NM NE OF BAC GIANG

DESCRIPTION: FACILITY CONSISTS OF A BIG BAR AND A ROCK CAKE/STONE CAKE RADAR. ONE RADAR VAN IS DISCERNIBLE.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6251-IV, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



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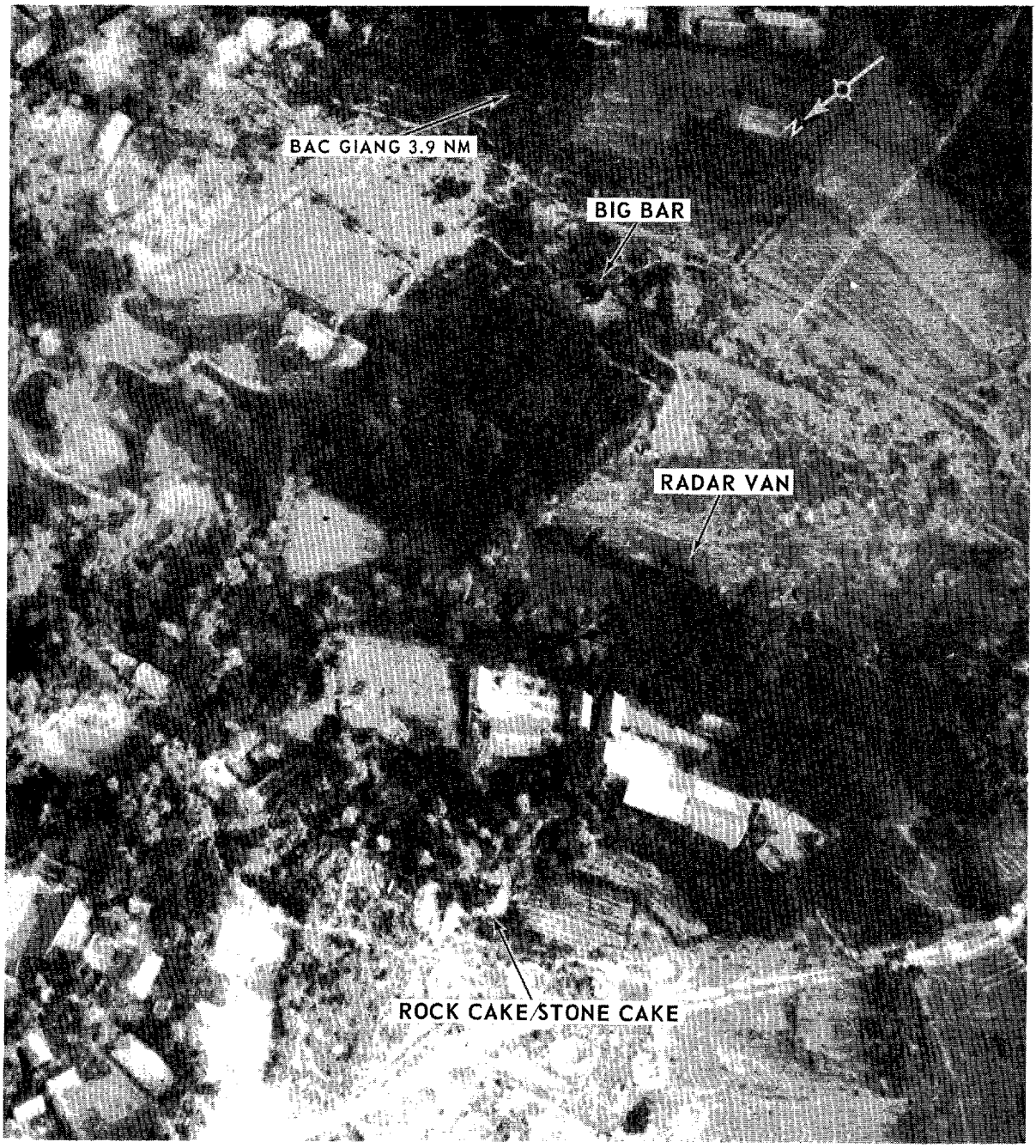
25X1C CONFIDENTIAL
Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5

MAY 1967

QUANG MO

XJ282587
UTM COORDINATES

21-19N 106-14E
GEOGRAPHIC COORDINATES



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Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5

B

CATEGORY B

AIR SEARCH

Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5

Approved For [redacted]A005900010018-5

CATEGORY B

Air Search

Most North Vietnamese air search radar sites consist of 2 vehicle revetments and a hut or shelter. When the site is occupied, a radar (usually FLAT FACE or KNIFE REST) will be in one revetment and a generator will be in the other revetment.

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25X1C CONFIDENTIAL [redacted]

Approved For [redacted]A005900010018-5

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4		Bai Thuong	B-8
5		Vinh Son	B-10
6		Phu Tho	B-12
7		Duc Noi	B-14
8		Ha Noi/Gia Lam	B-16
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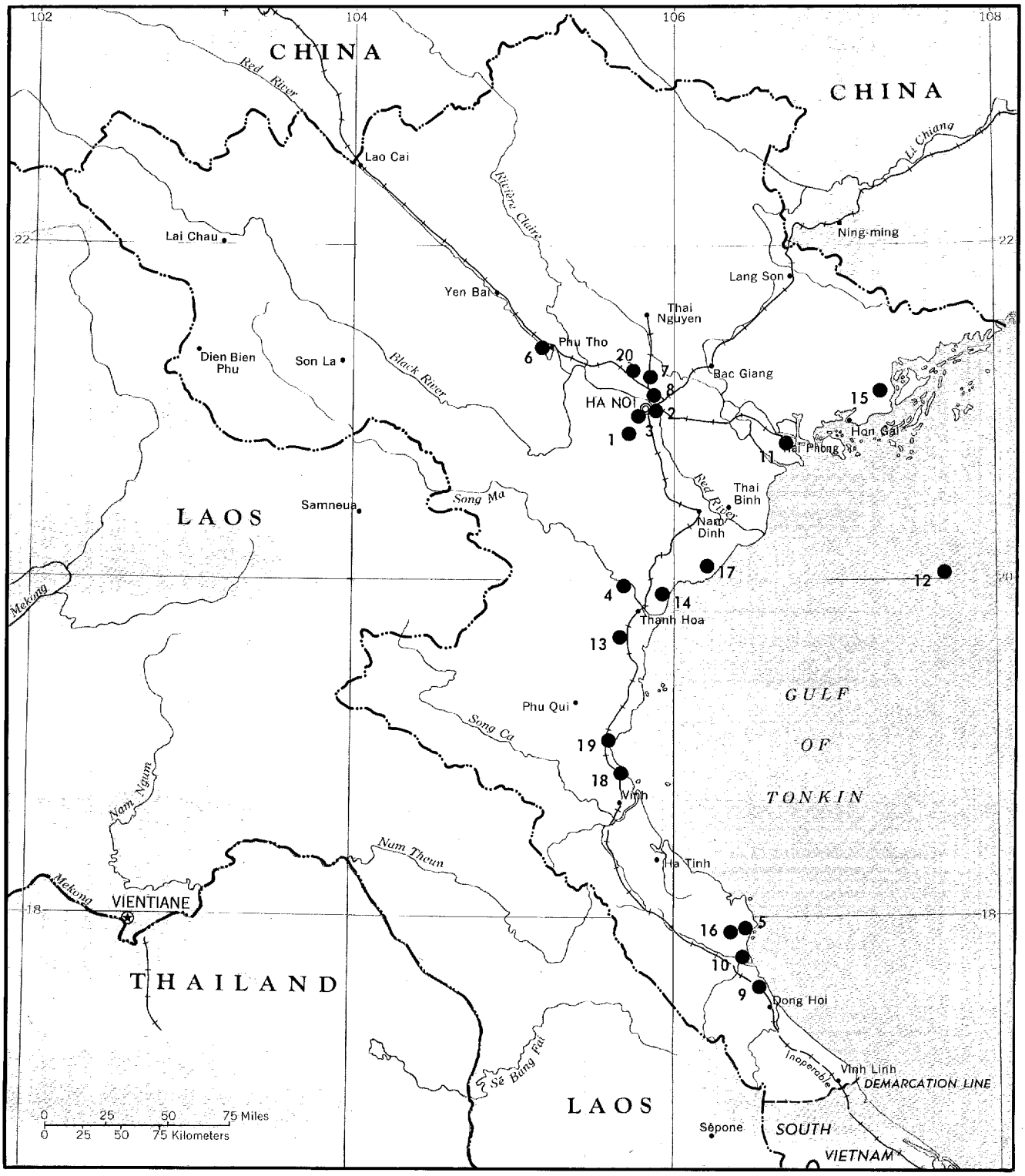
Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
[redacted]

Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5



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BE NUMBER	WJ826165 UTM COORDINATES	20-56N 105-47E GEOGRAPHIC COORDINATES

NAME: HA DONG

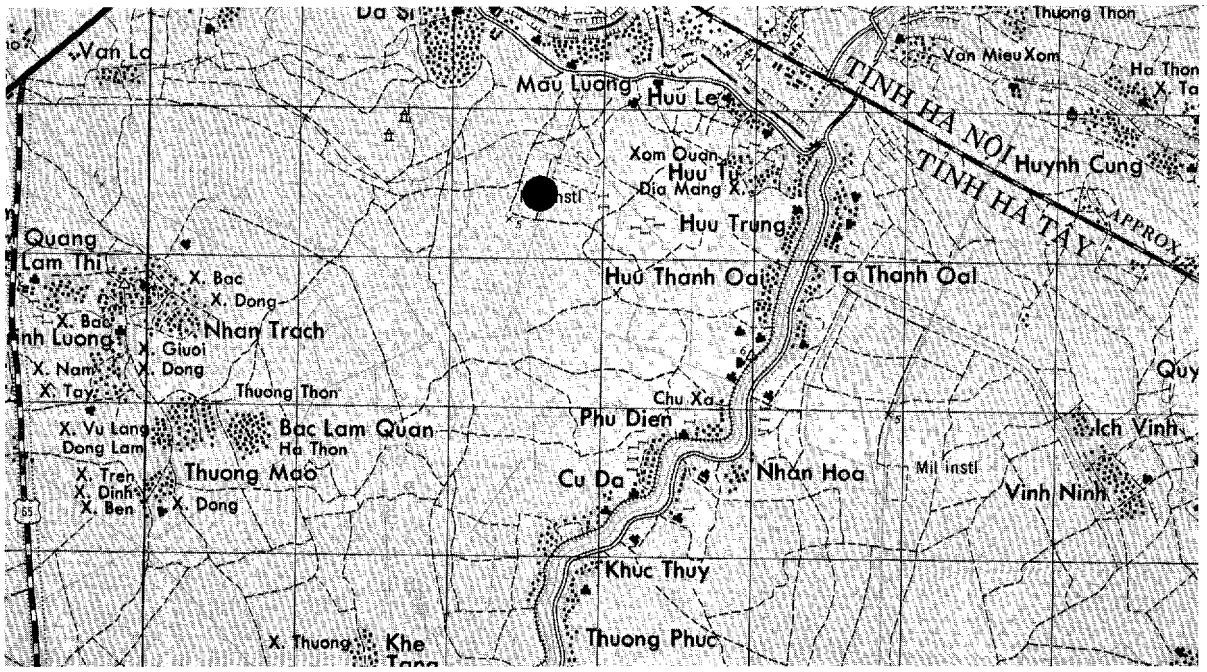
LOCATION: 1.5 NM SE OF HA DONG AND 3.5 NM SW OF HANOI/BAC MAI AIRFIELD

DESCRIPTION: FACILITY CONSISTS OF A FLAT FACE RADAR AND A GENERATOR TRAILER, BOTH IN VEHICLE REVETMENTS.

25X1D

PHOTO REFERENCES: [redacted]

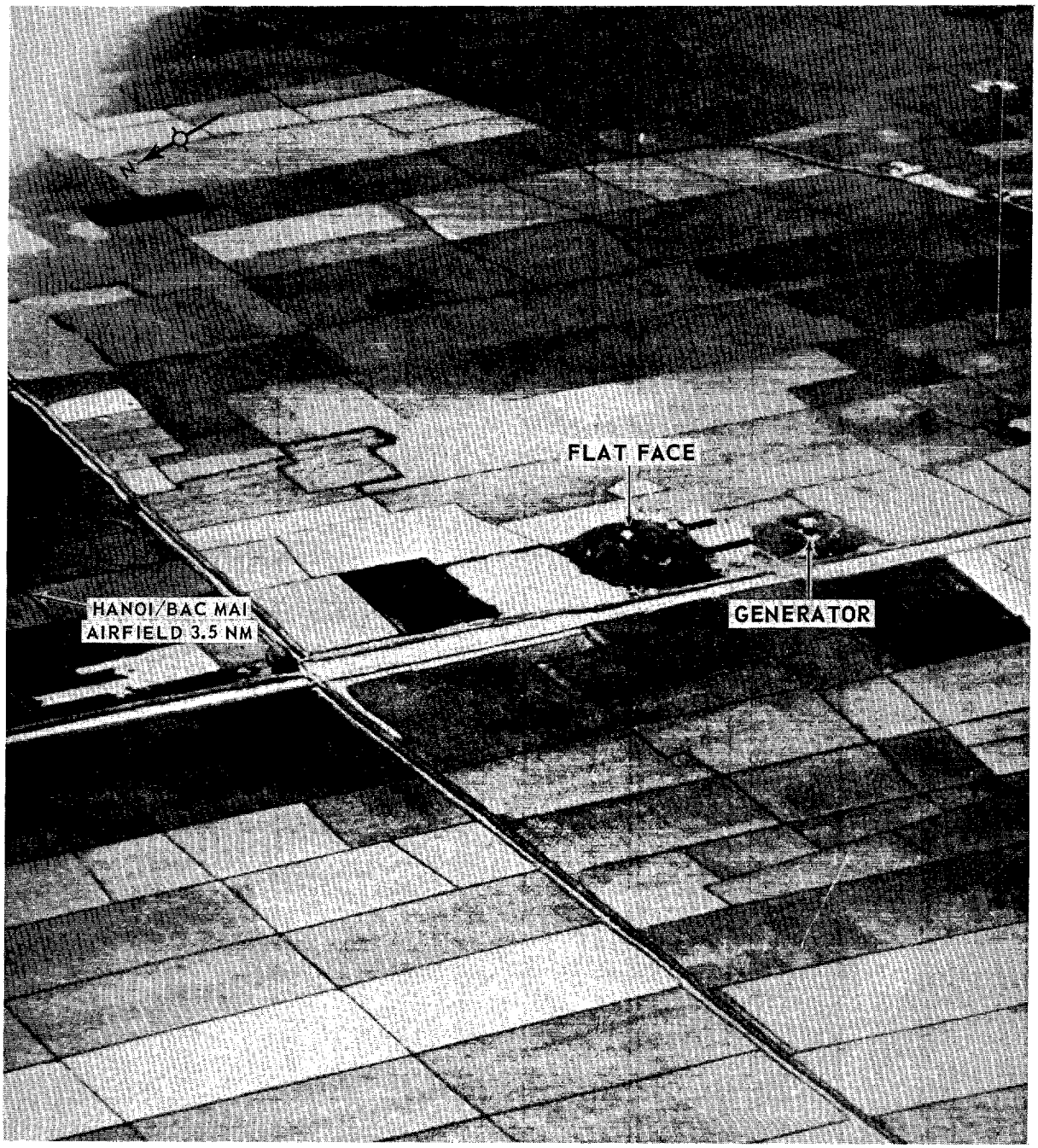
MAP REFERENCES: AMS SERIES L7014, SHEET 6150-I, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-15



HA DONG

WJ826165
UTM COORDINATES

20-56N 105-47E
GEOGRAPHIC COORDINATES



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25X1C CONFIDENTIAL
[redacted]

[redacted] BE NUMBER	WJ986218 UTM COORDINATES	20-59N 105-56E GEOGRAPHIC COORDINATES

NAME: THUAN TON

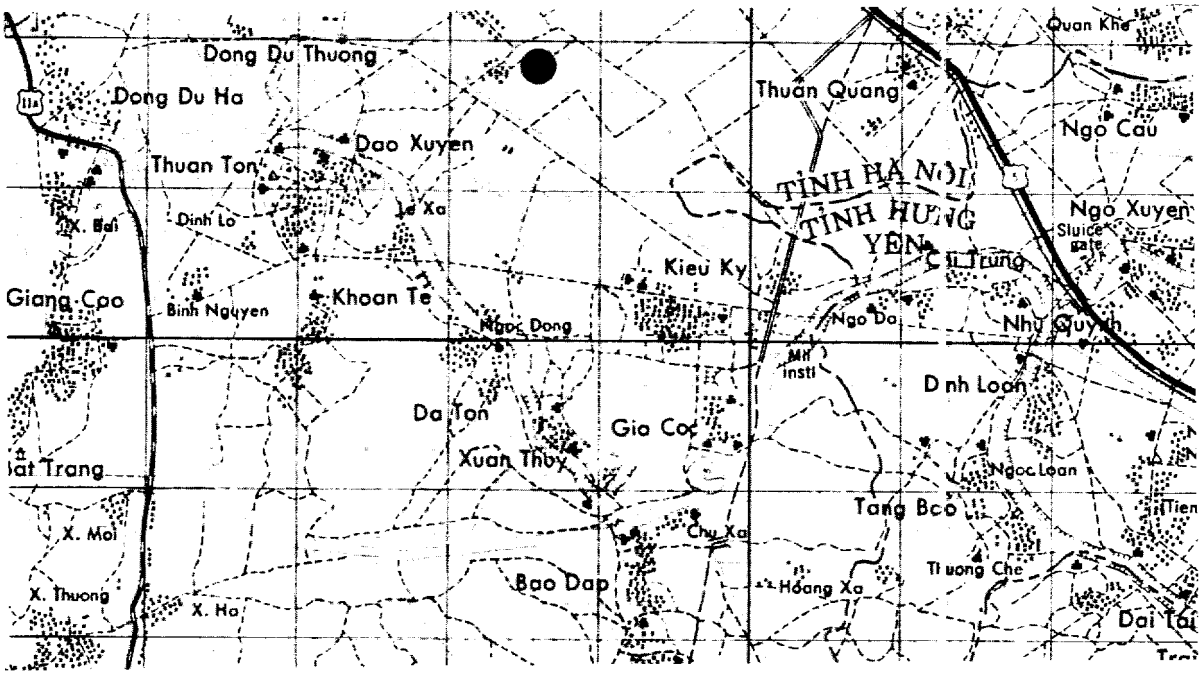
LOCATION: 1.0 NM NE OF THUAN TON AND 4.2 NM SE OF HANOI/GIA LAM AIRFIELD

DESCRIPTION: FACILITY CONSISTS OF A FLAT FACE RADAR AND A GENERATOR TRAILER, BOTH IN VEHICLE REVETMENTS.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6150-I, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-15

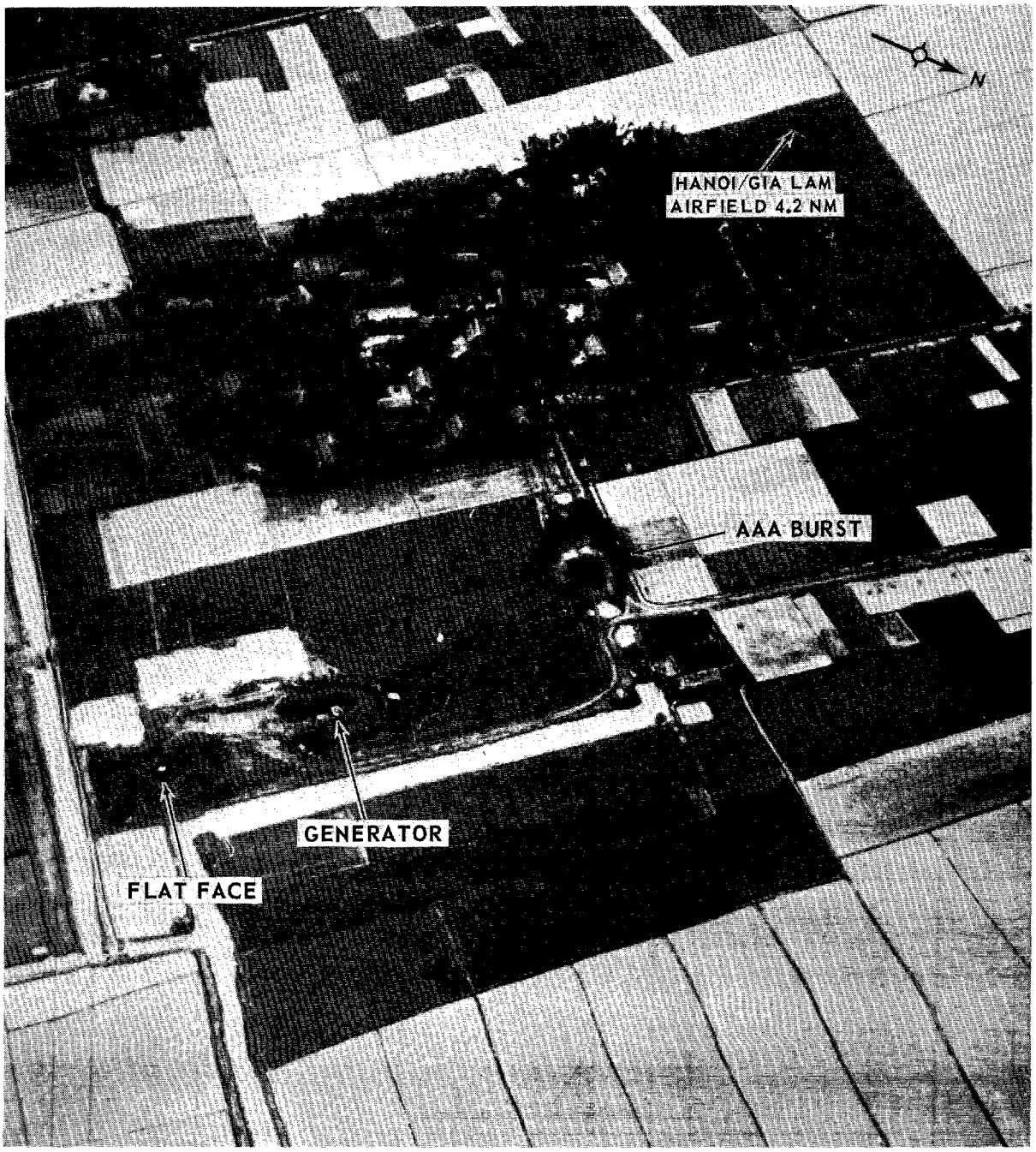


25X1C CONFIDENTIAL
Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5

THUAN TON

WJ986218
UTM COORDINATES

20-59N 105-56E
GEOGRAPHIC COORDINATES



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25X1C CONFIDENTIAL

BE NUMBER	WJ865218 UTM COORDINATES	20-59N 105-49E GEOGRAPHIC COORDINATES

NAME: HANOI/BAC MAI AIRFIELD

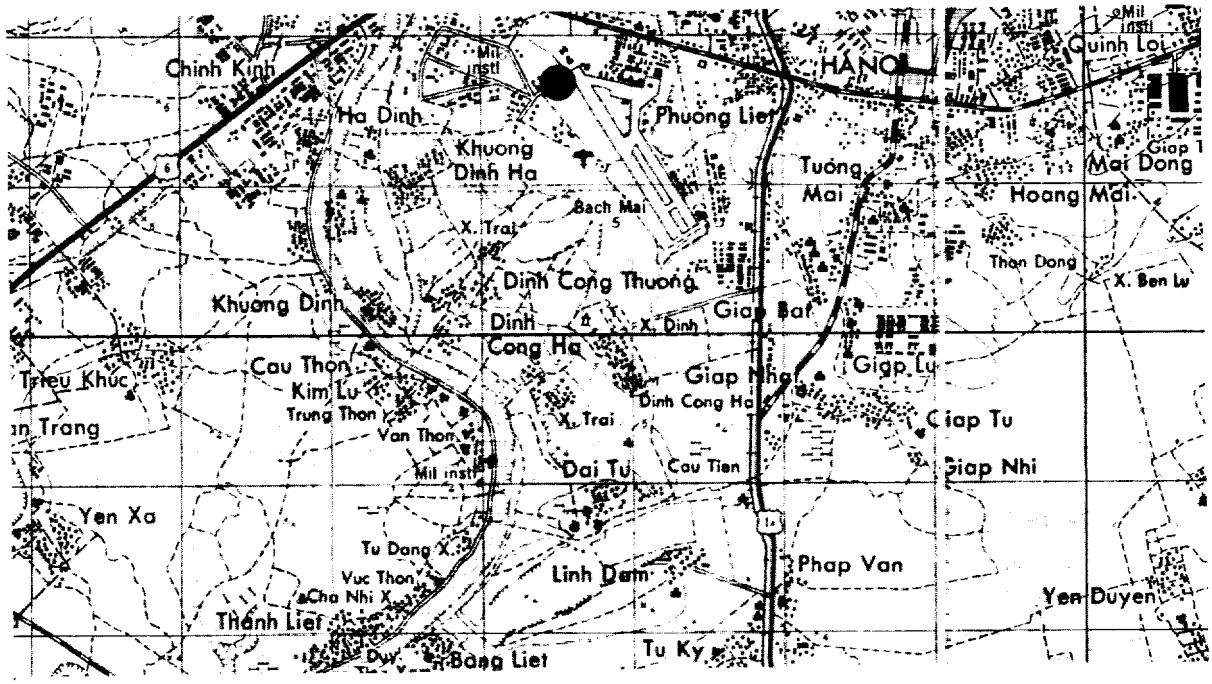
LOCATION: HANOI/BAC MAI AIRFIELD, 2.0 NM SSW OF HA NOI

DESCRIPTION: FACILITY CONSISTS OF A FLAT FACE RADAR AND A GENERATOR TRAILER IN AN OPEN AREA NEAR THE NW END OF THE RUNWAY.

25X1D

PHOTO REFERENCES: [redacted]

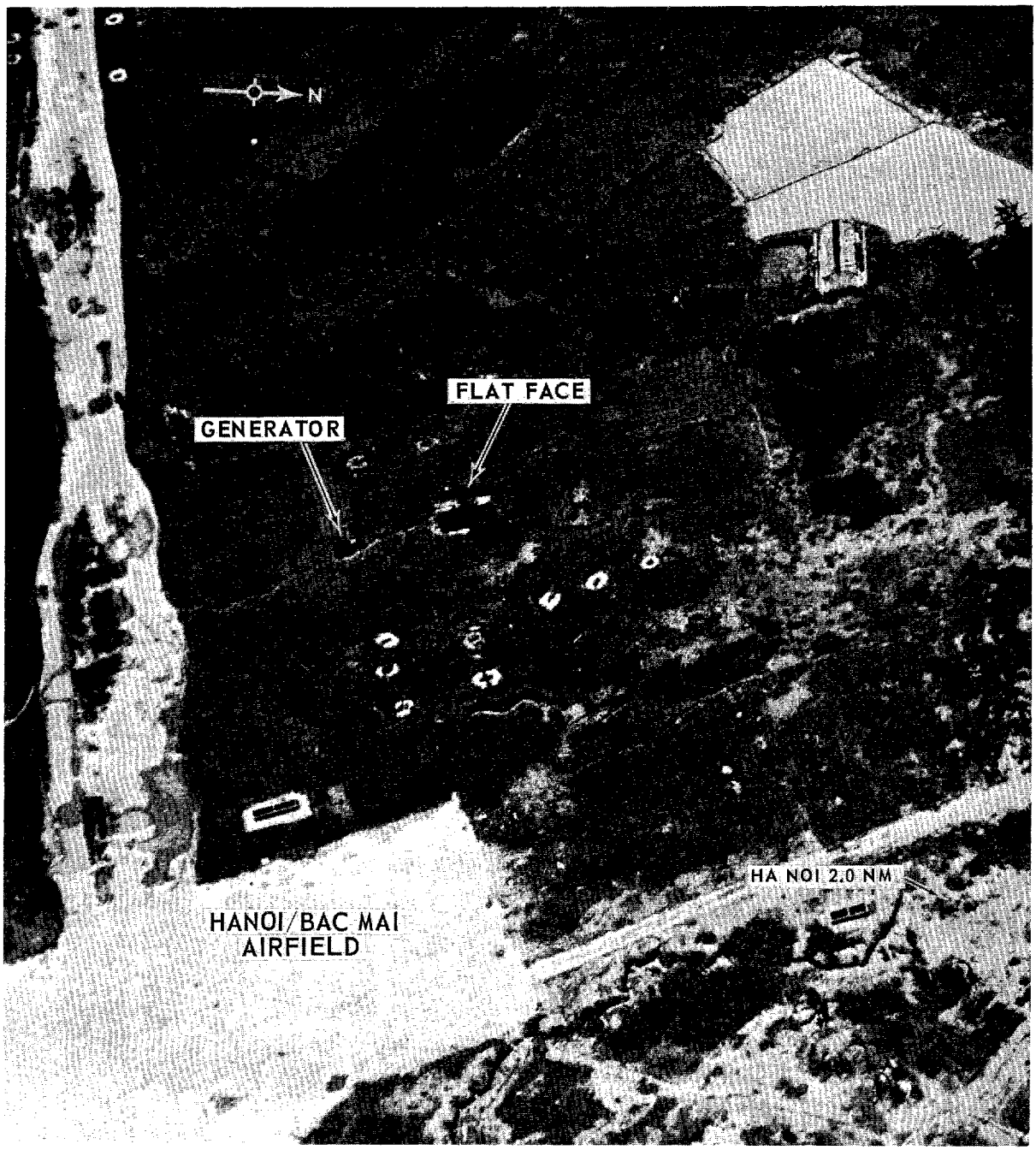
MAP REFERENCES: AMS SERIES L7014, SHEET 6150-I, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-15



HANOI/BAC MAI AIRFIELD

WJ865218
UTM COORDINATES

20-59N 105-49E
GEOGRAPHIC COORDINATES



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BE NUMBER	WG604992 UTM COORDINATES	19-53N 105-34E GEOGRAPHIC COORDINATES

NAME: BAI THUONG

LOCATION: 10.6 NM EAST OF BAI THUONG AND 12.5 NM NW OF THANH HOA

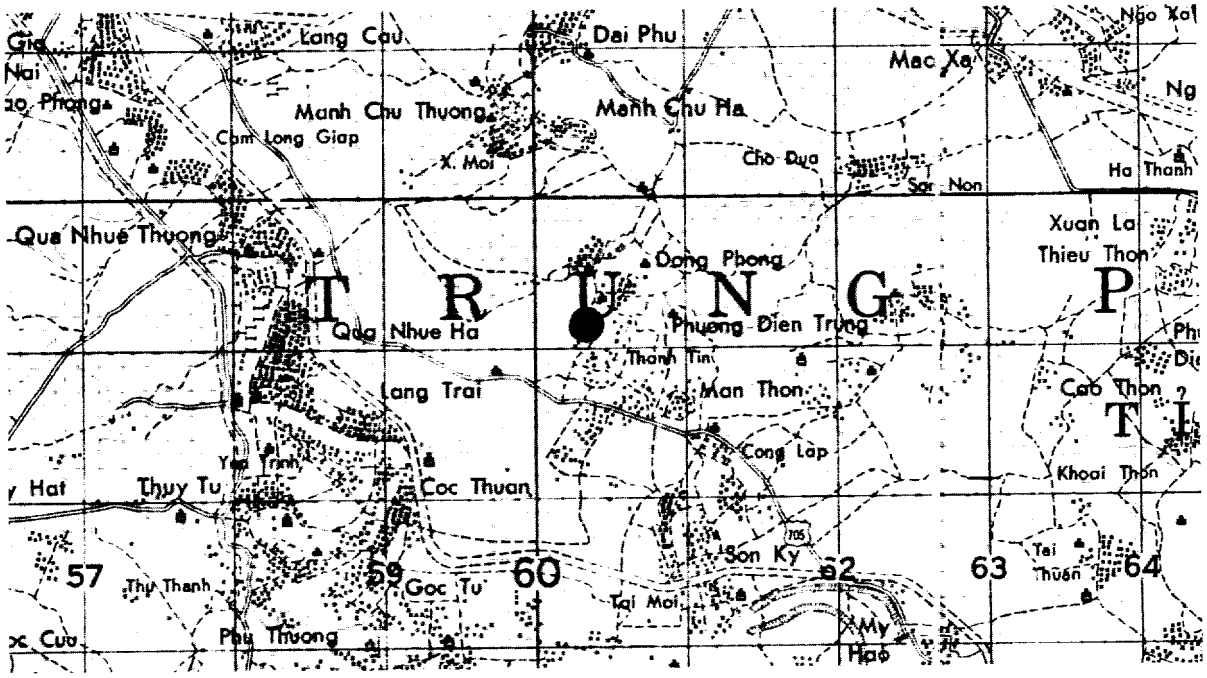
DESCRIPTION: FACILITY CONSISTS OF A REVETTED MOON FACE RADAR, 1 VAN TRUCK, AND A GENERATOR.

TWO ADDITIONAL REVETTED VAN TRUCKS ARE ADJACENT TO THE SITE.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6148-IV, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NE 48-3



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[redacted]

BAI THUONG

WG604992
UTM COORDINATES

19-53N 105-34E
GEOGRAPHIC COORDINATES

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25X1A

[redacted]	XE597862	17-57N 106-30E
BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES

NAME: VINH SON

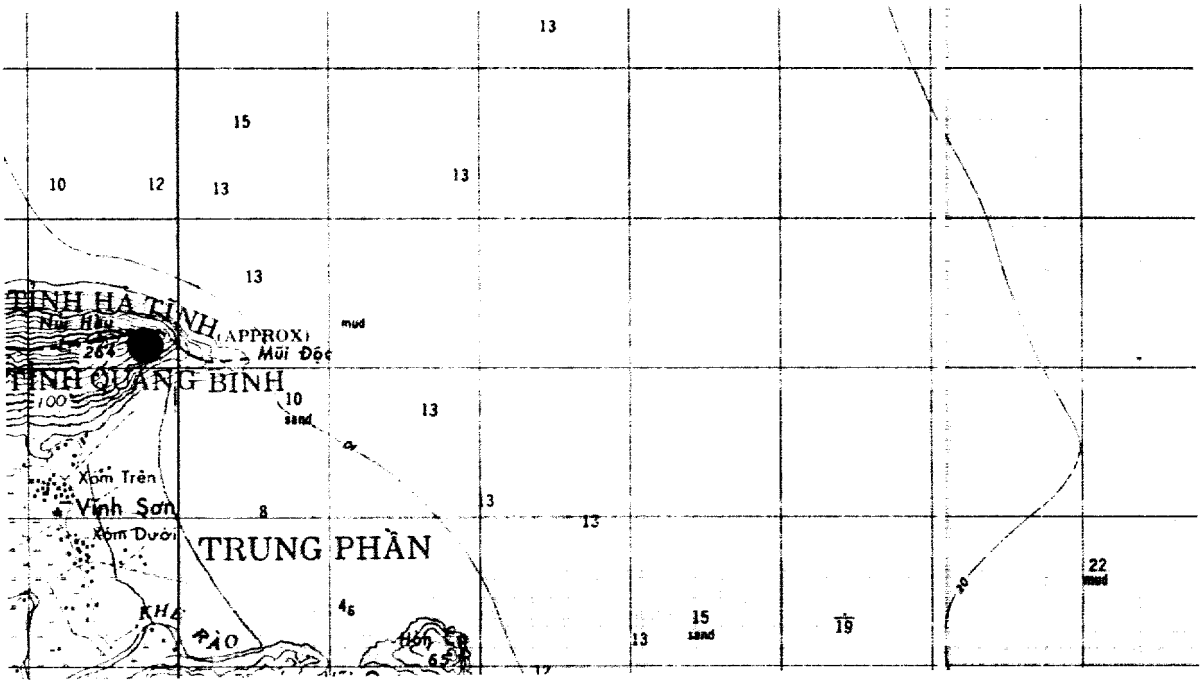
LOCATION: 0.6 NM NNE OF VINH SON

DESCRIPTION: FACILITY CONSISTS OF 2 REVETTED BUILDINGS. CROSS SLOT RADAR ANTENNAS WERE FORMERLY LOCATED ADJACENT TO THE REVETTED BUILDINGS; HOWEVER, THEY ARE NO LONGER PRESENT.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6344-IV, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NE 48-12



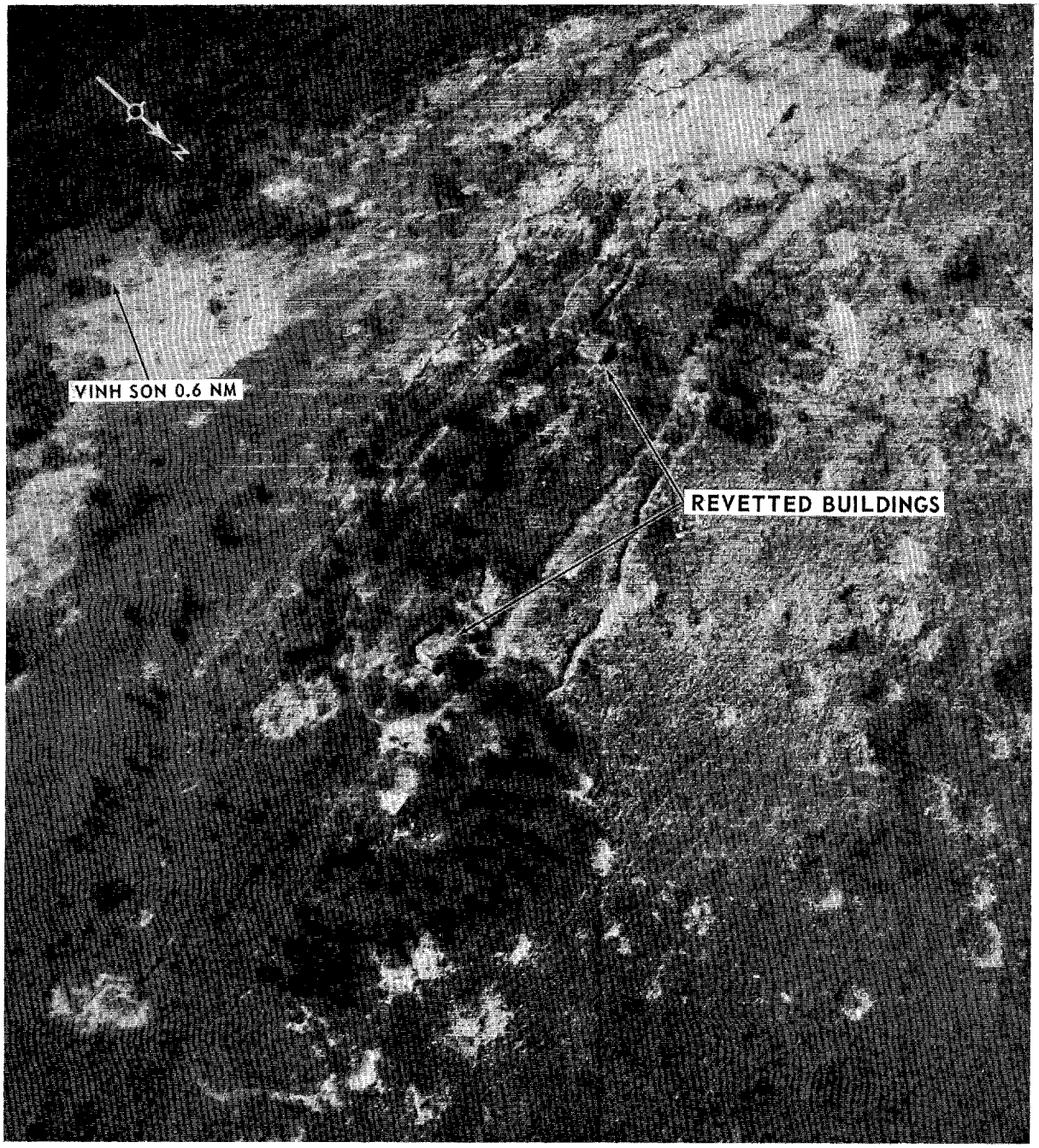
Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
25X1C CONFIDENTIAL [redacted]

Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
25X1C
CONFIDENTIAL

VINH SON

XE597862
UTM COORDINATES

17-57N 106-30E
GEOGRAPHIC COORDINATES



Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
25X1C
CONFIDENTIAL

25X1A

[redacted] BE NUMBER | WJ194650 UTM COORDINATES | 21-23N 105-11E GEOGRAPHIC COORDINATES

NAME: PHU THO

LOCATION: 2.2 NM WSW OF PHU THO

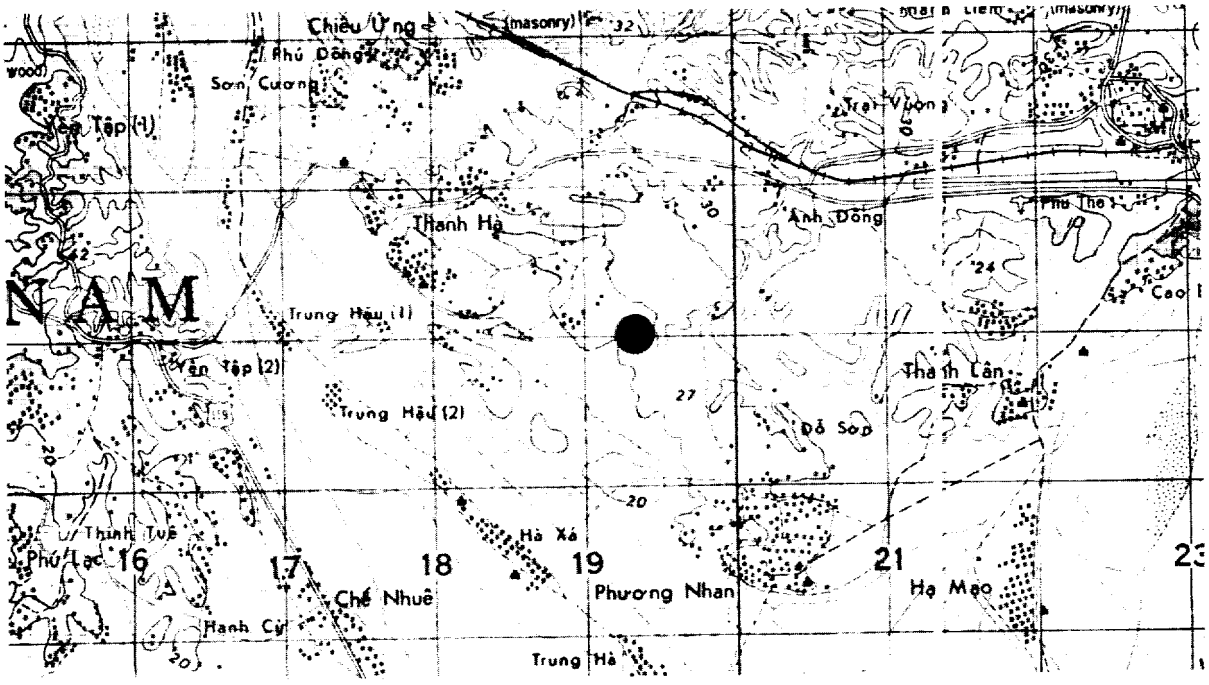
DESCRIPTION: FACILITY CONSISTS OF A KNIFE REST B AND A VAN TRUCK, BOTH IN VEHICLE REVETMENTS.

TWO REVETMENTS IMMEDIATELY SOUTH OF THE KNIFE REST B CONTAIN A PROBABLE RADAR AND A POSSIBLE CAMOUFLAGED VEHICLE.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6051-IV, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11

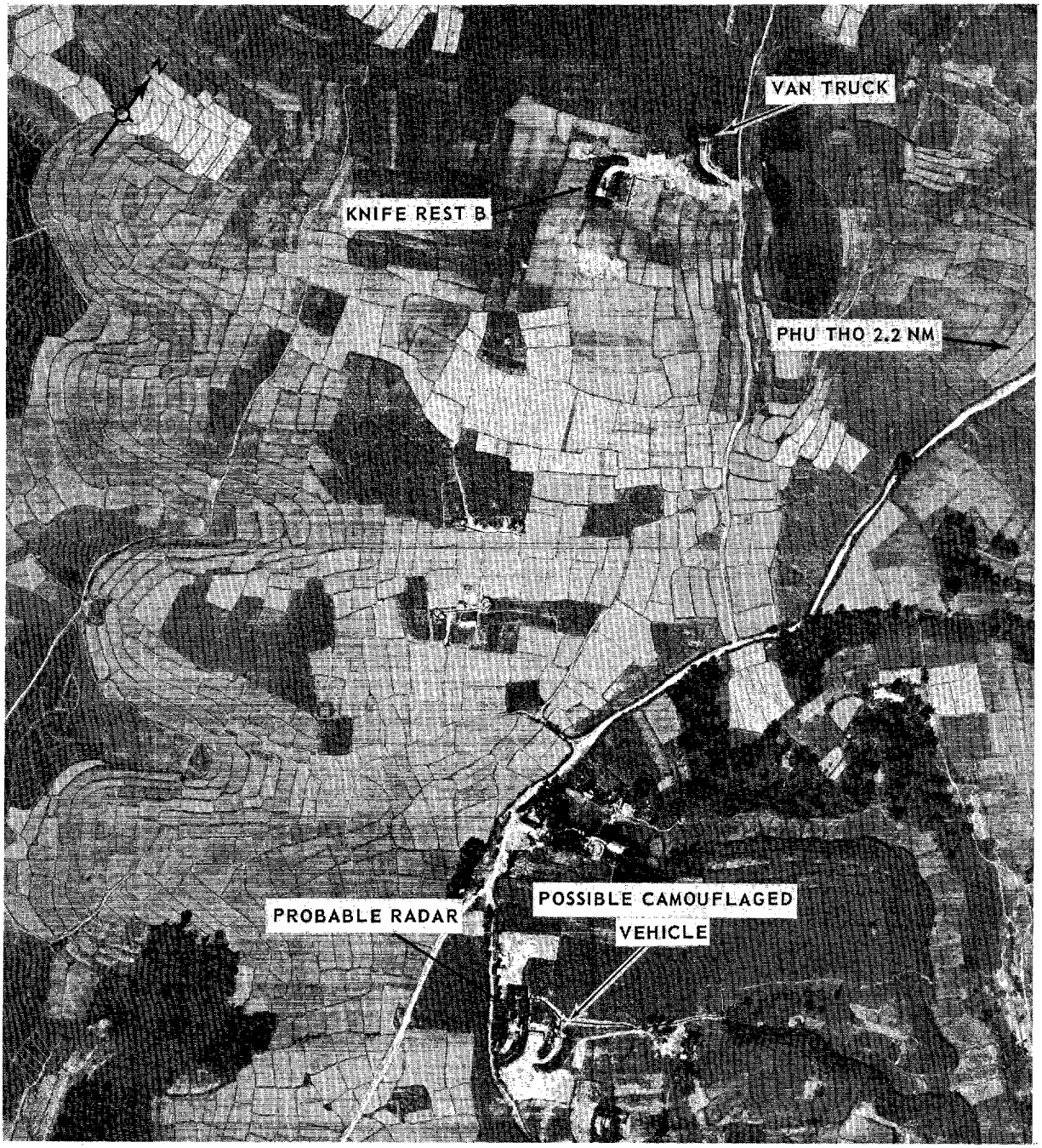


Approved For Release 2000/04/27 : CIA-RDP78B04560A005900010018-5

PHU THO

WJ194650
UTM COORDINATES

21-23N 105-11E
GEOGRAPHIC COORDINATES



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Approved For [redacted]A005900010018-5

25X1A

[redacted] WJ932371 21-08N 105-53E
BE NUMBER UTM COORDINATES GEOGRAPHIC COORDINATES

NAME: DUC NOI

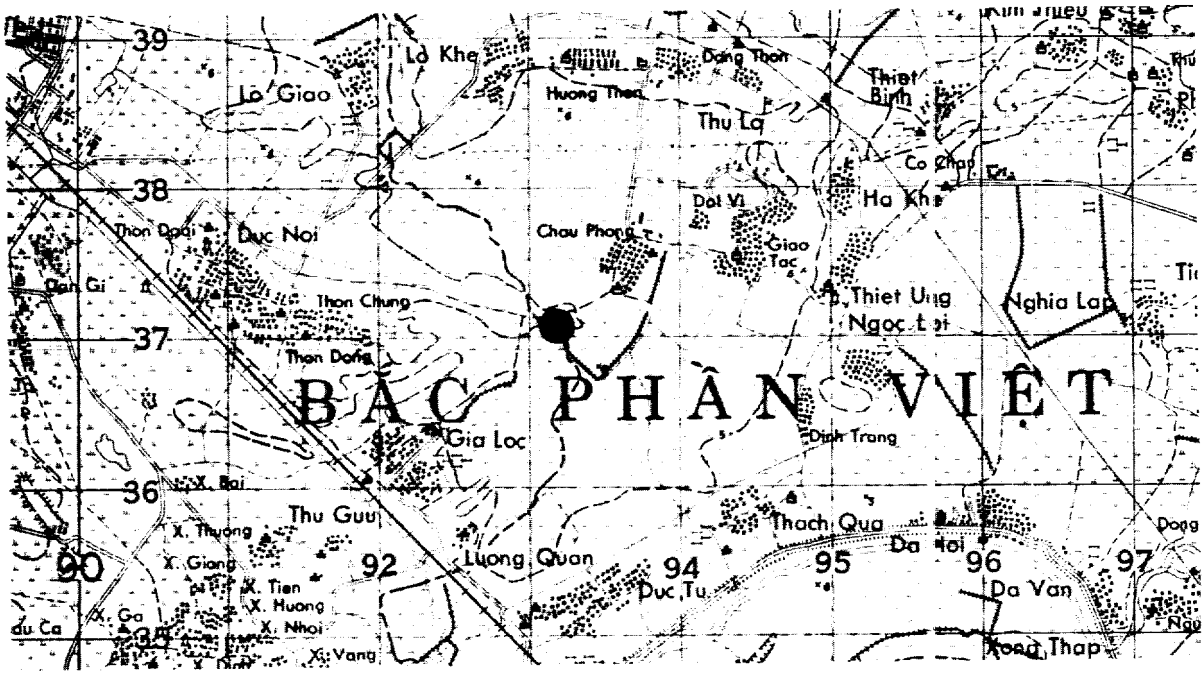
LOCATION: 1.2 NM EAST OF DUC NOI AND 7.3 NM NNE OF HA NOI

DESCRIPTION: FACILITY CONSISTS OF A FLAT FACE RADAR AND A GENERATOR TRAILER, BOTH IN VEHICLE REVETMENTS.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-II, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



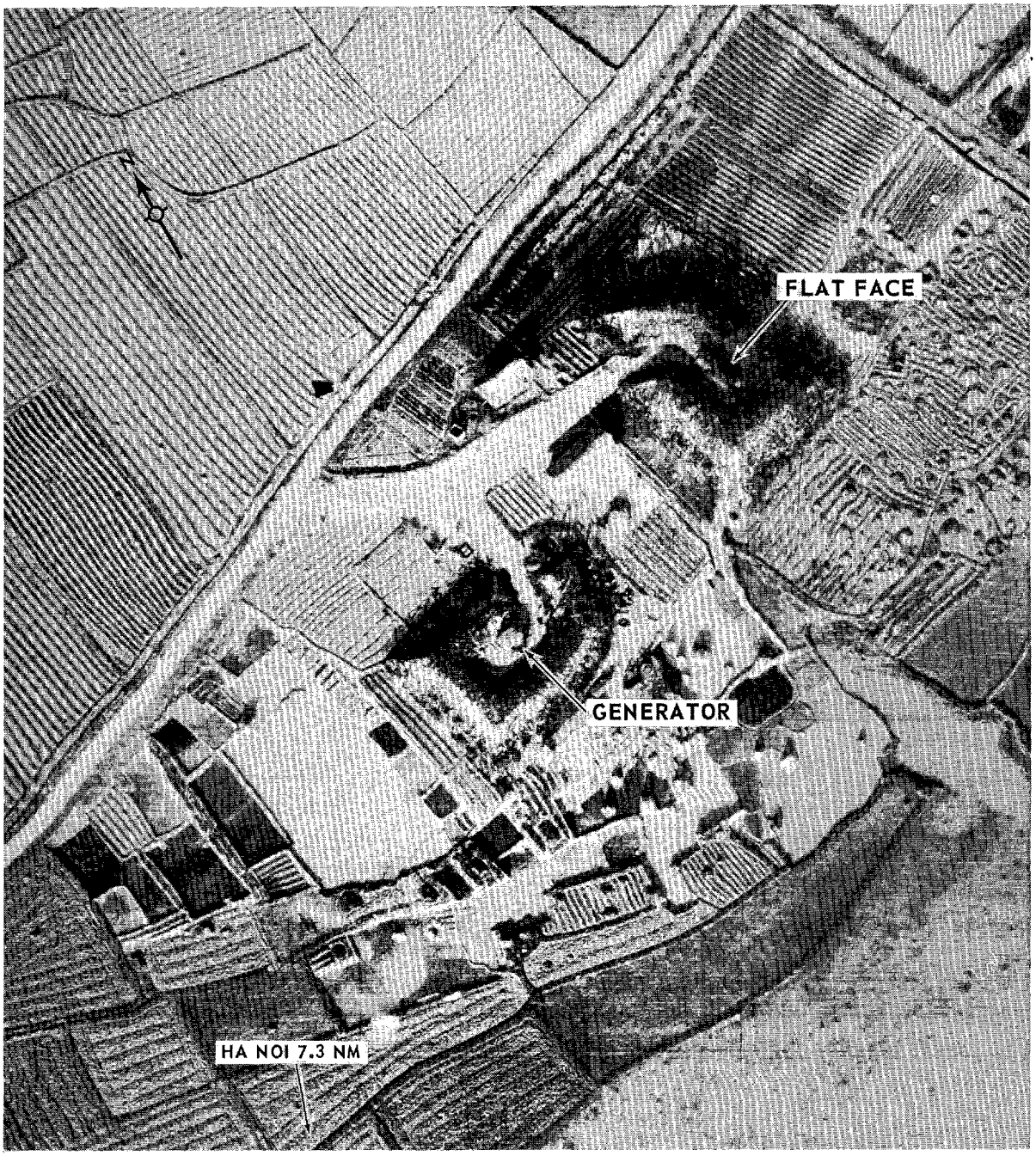
Approved For Release 2000/08/17 : CIA-RDP78B04560A005900010018-5
25X1C CONFIDENTIAL [redacted]

Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
25X1C
CONFIDENTIAL

DUC NOI

WJ932371
UTM COORDINATES

21-08N 105-53E
GEOGRAPHIC COORDINATES



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25X1C
CONFIDENTIAL

Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5

BE NUMBER	WJ920267 UTM COORDINATES	21-07N 105-53E GEOGRAPHIC COORDINATES

NAME: HANOI/GIA LAM

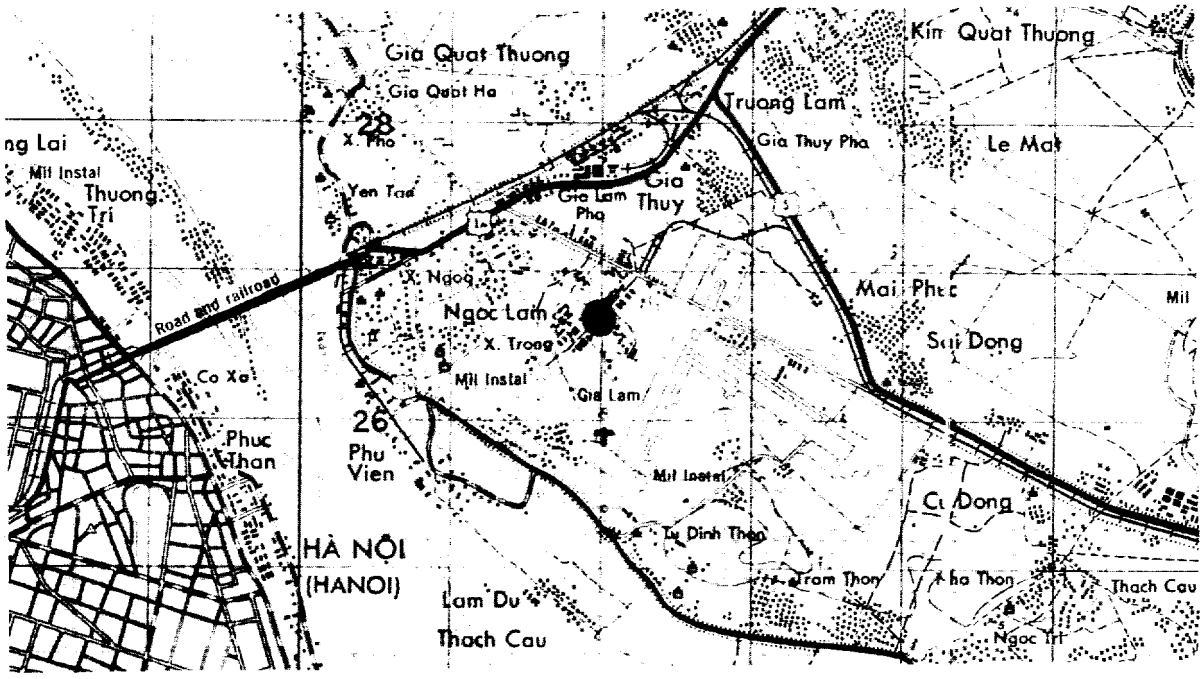
LOCATION: MOTOR POOL IN THE BARRACKS AREA OF THE HANOI/GIA LAM AIRFIELD

DESCRIPTION: FACILITY CONSISTS OF A FLAT FACE RADAR WITH ANTENNA ERECTED.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-II, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



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Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5

HANOI/GIA LAM

WJ920267
UTM COORDINATES

21-02N 105-53E
GEOGRAPHIC COORDINATES

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Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
25X1C CONFIDENTIAL
25X1A
MAY 1967

25X1A

[redacted] BE NUMBER | XE694357 UTM COORDINATES | 17-30N 106-35E GEOGRAPHIC COORDINATES

NAME: DONG HOI

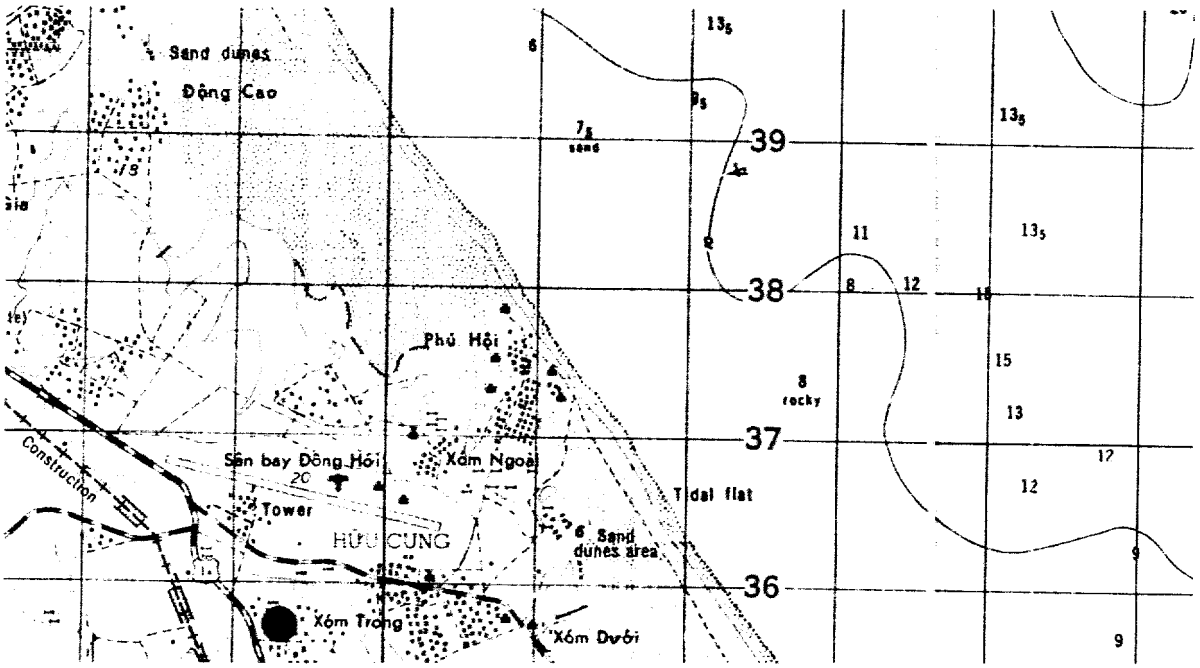
LOCATION: 2.6 NM NW OF DONG HOI

DESCRIPTION: SITE CONSISTS OF 12 UNOCCUPIED VEHICLE REVETMENTS.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6344-III, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NE 48-12



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25X1C CONFIDENTIAL

Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
25X1C CONFIDENTIAL
NPIC/R-32/67
MAY 1967

DONG HOI

XE694357
UTM COORDINATES

17-30N 106-35E
GEOGRAPHIC COORDINATES

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25X1C CONFIDENTIAL

Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
25X1C
CONFIDENTIAL
[redacted]

BE NUMBER	XE616521 UTM COORDINATES	17-39N 106-31E GEOGRAPHIC COORDINATES

NAME: BADON

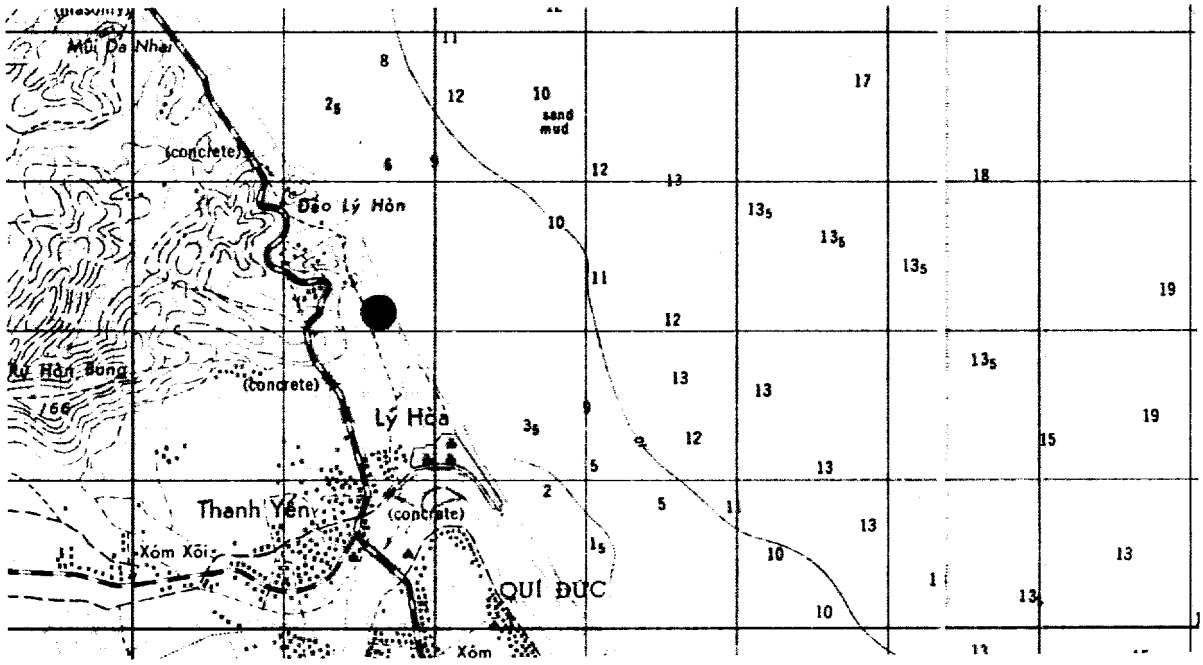
LOCATION: 7.8 NM SE OF BADON AND 12.4 NM NW OF DONG HOI

DESCRIPTION: FACILITY CONSISTS OF 1 KNIFE REST A RADAR ANTENNA AND 1 TENT.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6344-III, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NE 48-12



Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
25X1C
CONFIDENTIAL
[redacted]

Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
25X1C
CONFIDENTIAL

BADON

XE616521
UTM COORDINATES

17-39N 106-31E
GEOGRAPHIC COORDINATES

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25X1C
CONFIDENTIAL

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BE NUMBER	XJ787072 UTM COORDINATES	20-51N 106-43E GEOGRAPHIC COORDINATES

NAME: HAI PHONG

LOCATION: 1.2 NM SE OF THE HAI PHONG PORT FACILITIES

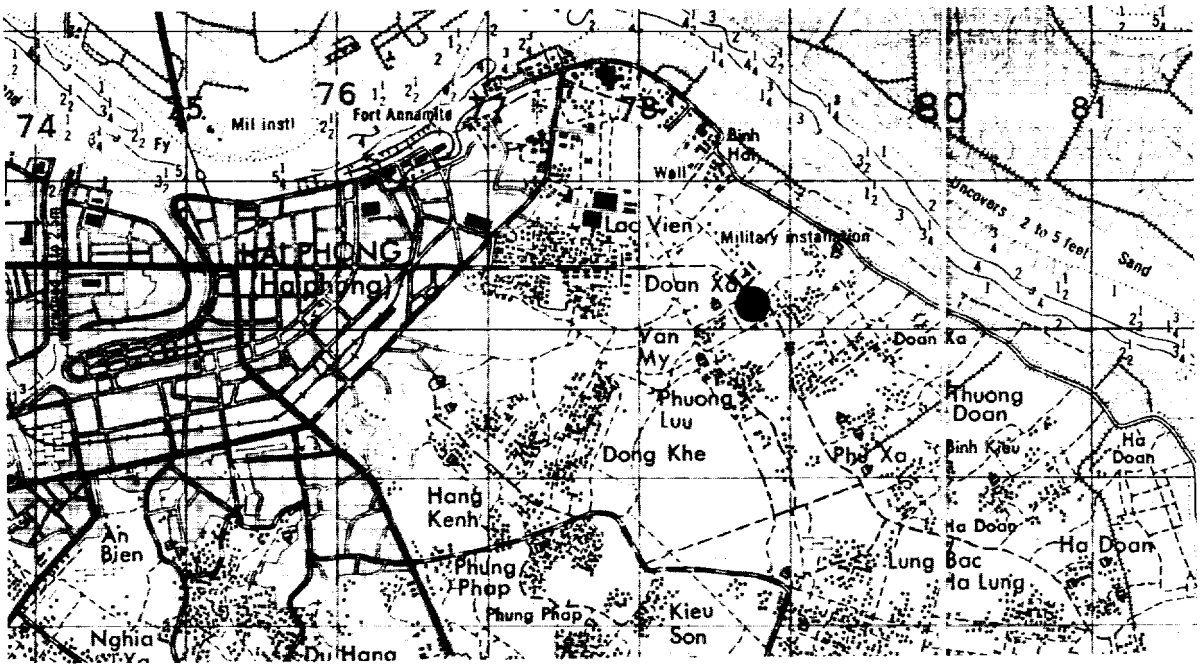
DESCRIPTION: FACILITY CONSISTS OF A KNIFE REST B RADAR AND 1 VAN TRUCK BOTH IN VEHICLE REVETMENTS.

A PROBABLE REVETTED LIGHT AAA SITE IS IMMEDIATELY SE.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6350-IV, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-16



Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5

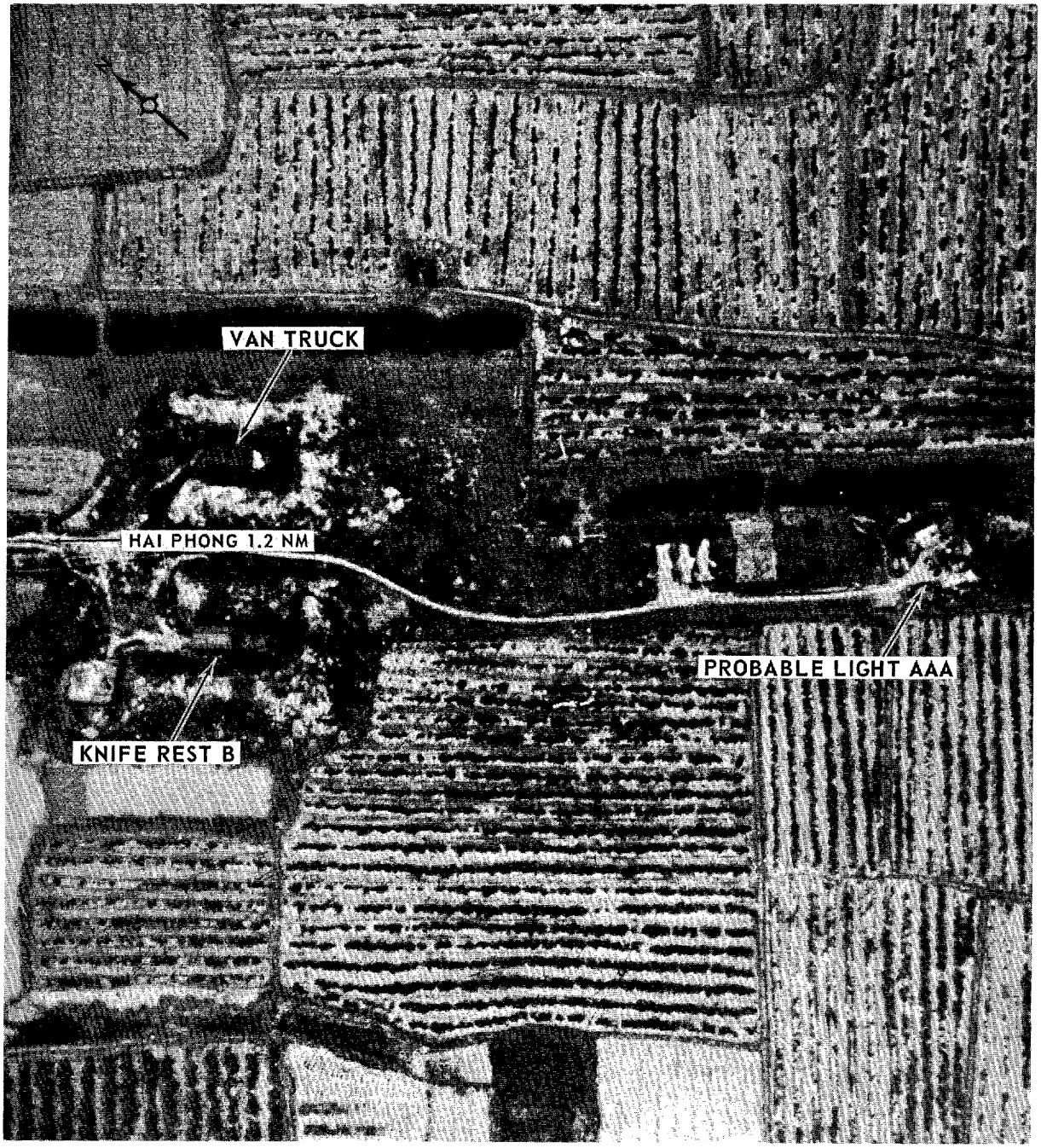
[redacted]

Approved For Release 2000/02/17 : CIA-RDP78B04560A005900010018-5
25X1C CONFIDENTIAL
[redacted]

HAI PHONG

XJ787072
UTM COORDINATES

20-51N 106-43E
GEOGRAPHIC COORDINATES



Approved For Release 2000/02/17 : CIA-RDP78B04560A005900010018-5
25X1C CONFIDENTIAL
[redacted]

BE NUMBER	YH854280 UTM COORDINATES	20-07N 107-43E GEOGRAPHIC COORDINATES

NAME: BACH LONG VI

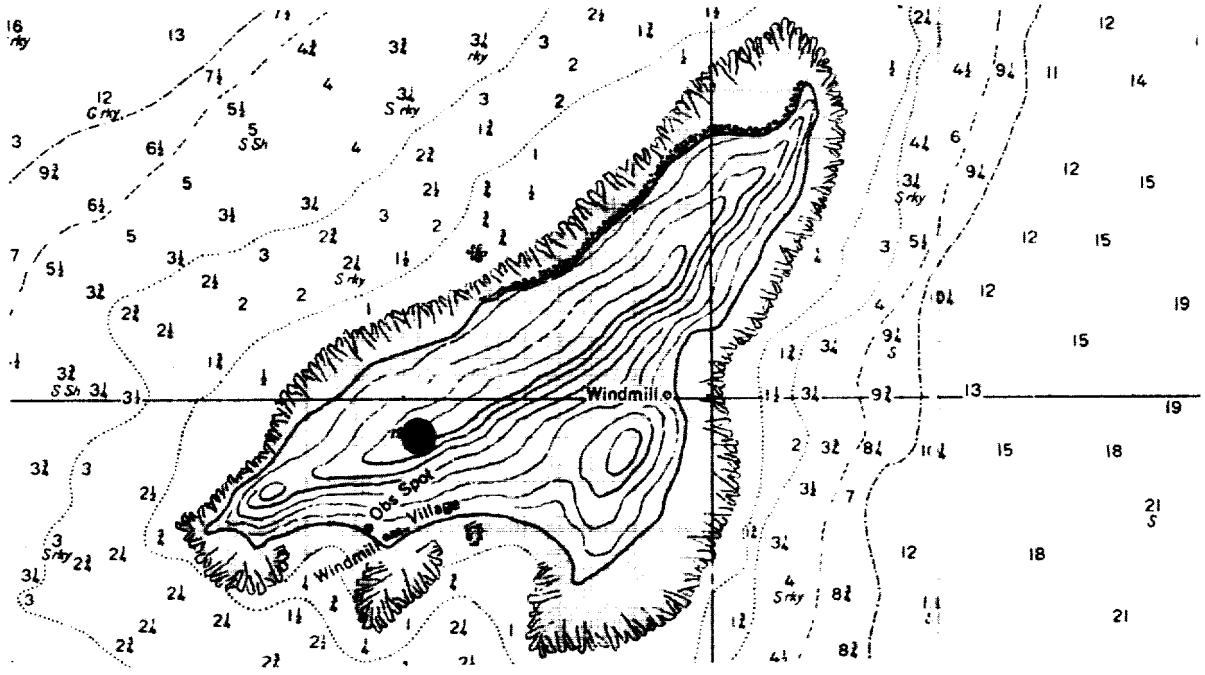
LOCATION: ILE BACH LONG VI, 73.4 NM SE OF HAI PHONG

DESCRIPTION: FACILITY CONSISTS OF 1 PROBABLE CROSS SLOT RADAR WITH THE ANTENNA REFLECTOR REMOVED. THE ANTENNA WAS MOUNTED ON A SCREENED PLATFORM ADJACENT TO A REVETTED BUILDING.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: USN. HYDROGRAPHIC CHART 3158, 3D ED, REVISED 17 SEPT 62 (U)
AMS SERIES 1501, SHEET NF 48-16



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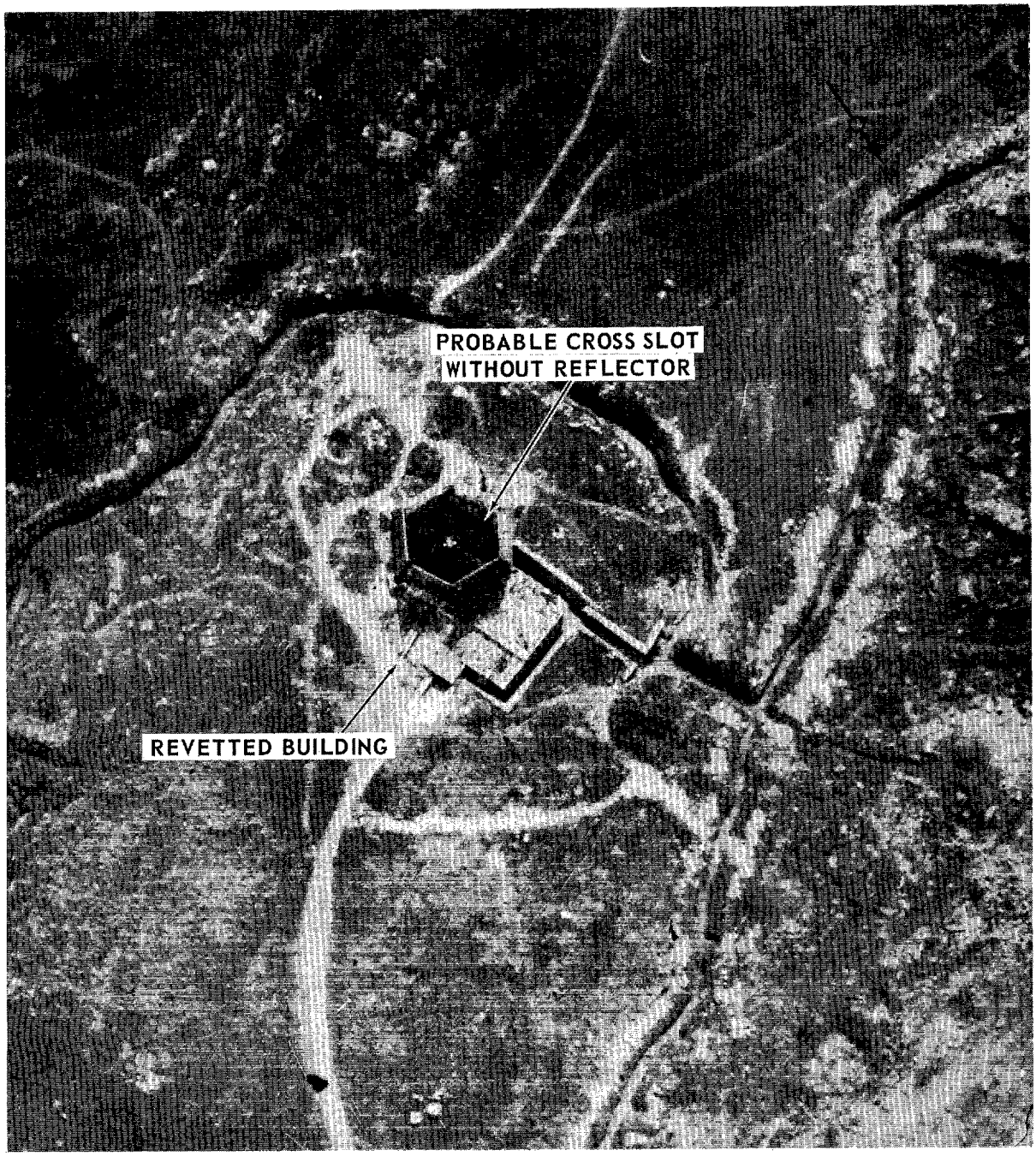
BACH LONG VI

YH854280
UTM COORDINATES

20-07N 107-43E
GEOGRAPHIC COORDINATES



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25X1C
CONFIDENTIAL
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Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
25X1C CONFIDENTIAL
[redacted]

BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES
	WG799762	19-40N 105-45E

NAME: VAN NHAM

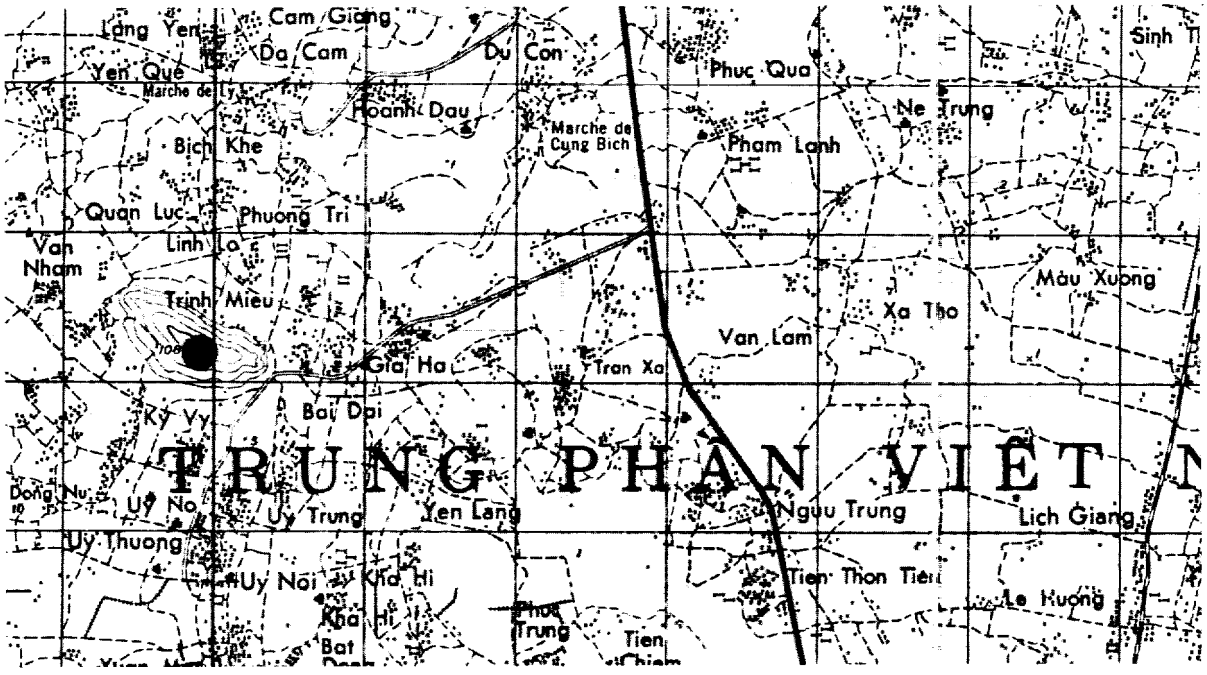
LOCATION: 0.6 NM SE OF VAN NHAM AND 7.6 NM SOUTH OF THANH HOA

DESCRIPTION: FACILITY CONSISTS OF A CROSS SLOT RADAR AND A REVETTED CONTROL BUILDING.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6148-II, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NE 48-3



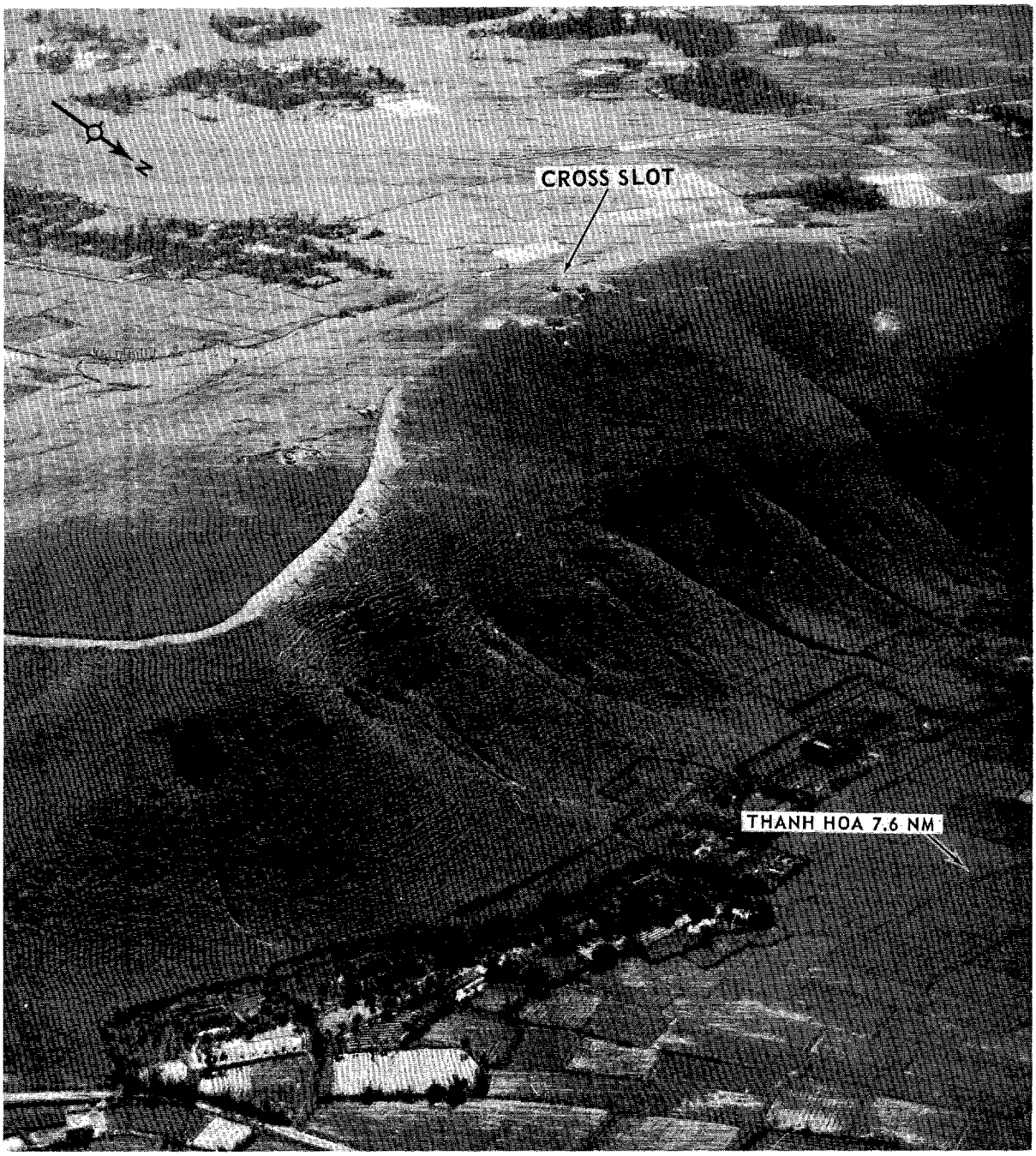
Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
25X1C CONFIDENTIAL
[redacted]

Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
25X1C
CONFIDENTIAL
[redacted]

VAN NHAM

WG799762
UTM COORDINATES

19-40N 105-45E
GEOGRAPHIC COORDINATES



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25X1C
CONFIDENTIAL
[redacted]

Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5

25X1A

[redacted]	WG993981	19-52N 105-56E
BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES

NAME: MY DUC

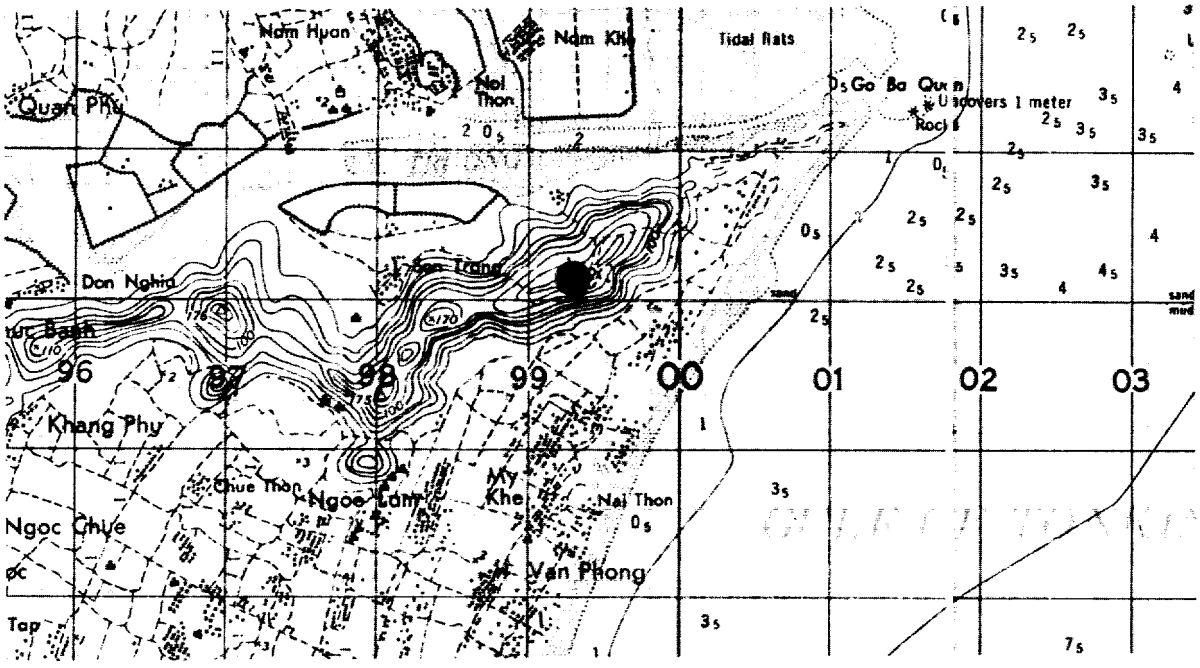
LOCATION: 3.2 NM NE OF MY DUC AND 10.6 NM NE OF THANH HOA

DESCRIPTION: FACILITY CONSISTS OF A CAMOUFLAGED PROBABLE CROSS SLOT RADAR.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6148-I, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NE 48-3



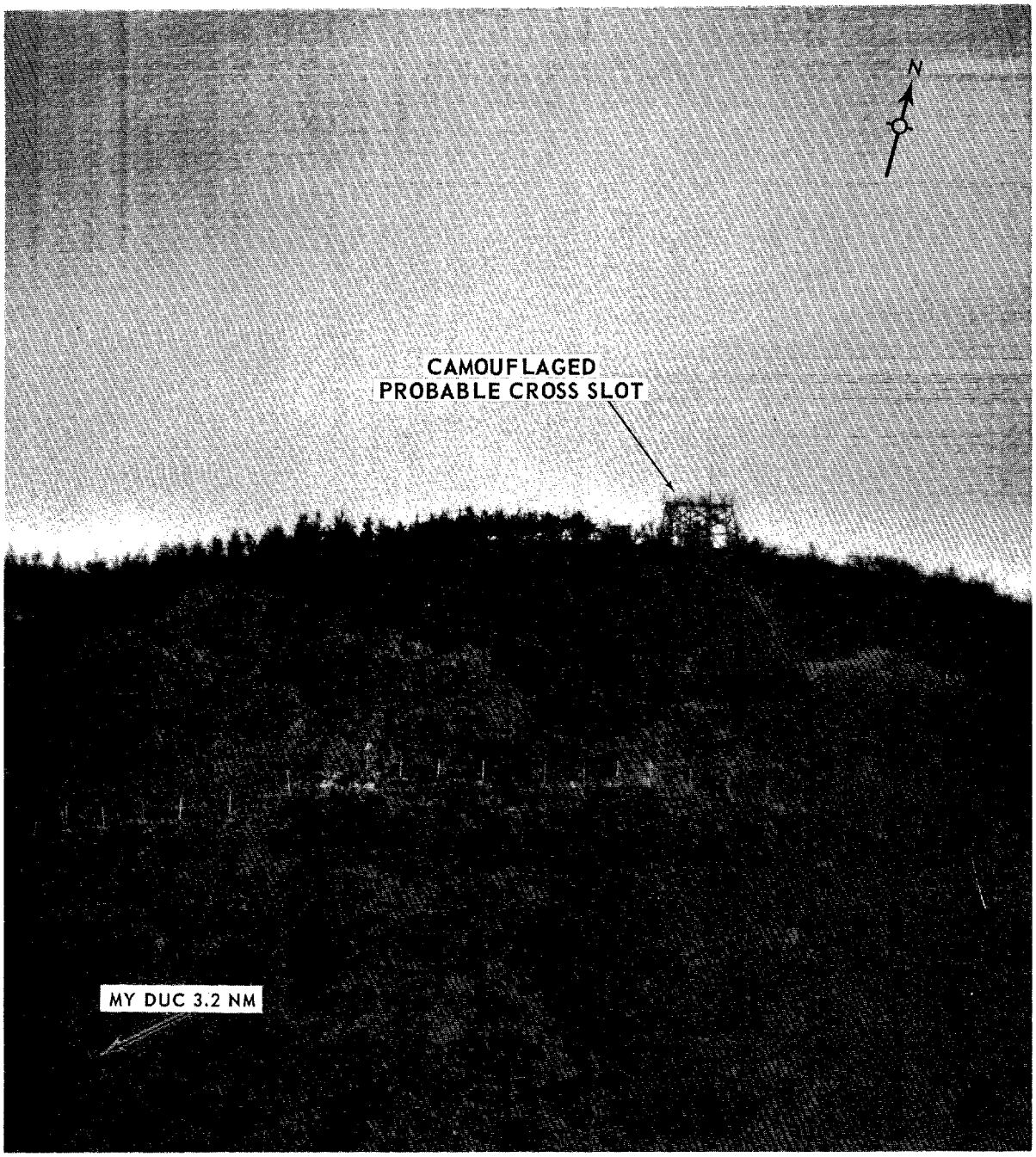
Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5

Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5

MY DUC

WG993981
UTM COORDINATES

19-52N 105-56E
GEOGRAPHIC COORDINATES



Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
25X1C CONFIDENTIAL

BE NUMBER	XJ521601 UTM COORDINATES	21-19N 107-25E GEOGRAPHIC COORDINATES

NAME: TIEN YEN

LOCATION: 1.5 NM EAST OF TIEN YEN AND 56.0 NM NE OF HAI PHONG

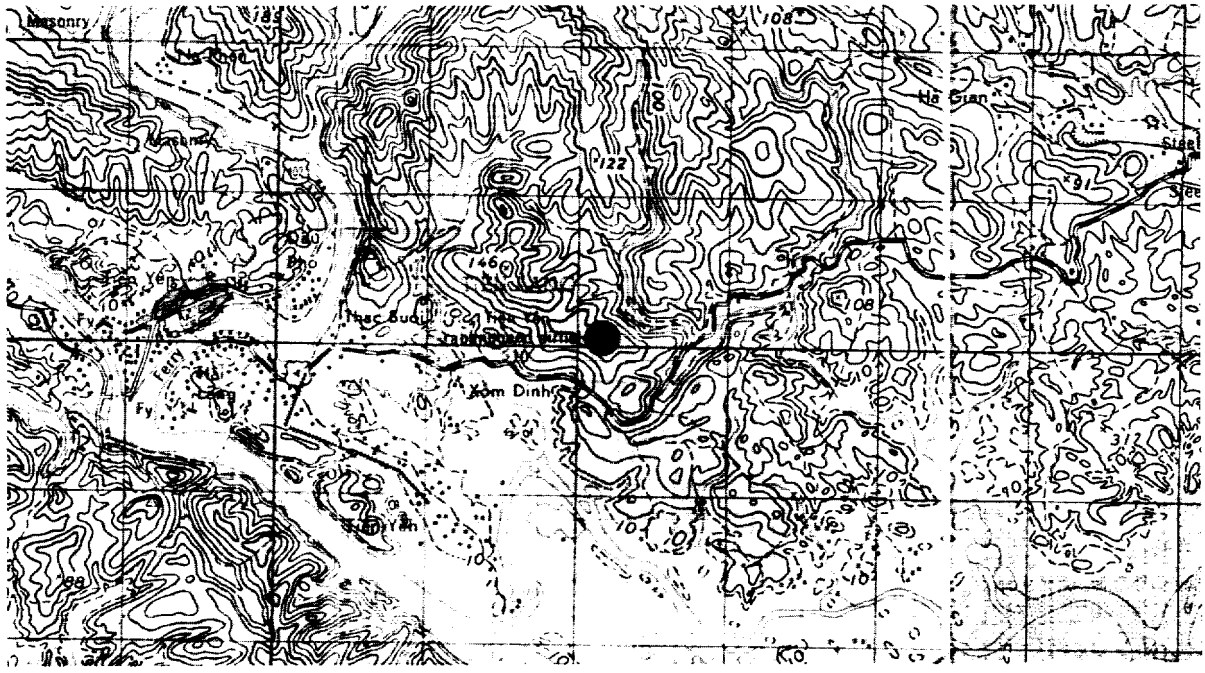
DESCRIPTION: FACILITY CONSISTS OF 1 HEAVILY CAMOUFLAGED PROBABLE KNIFE REST B RADAR.

NO OTHER EQUIPMENT OR FACILITIES ARE DISCERNIBLE THROUGH DENSE TREE CANOPY.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6451-I, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-12



Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
25X1C
CONFIDENTIAL
NPIC/R-32/67
MAY 1967

TIEN YEN

XJ521601
UTM COORDINATES

21-19N 107-25E
GEOGRAPHIC COORDINATES

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25X1C
CONFIDENTIAL

Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5

25X1A [redacted]

BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES
	XE514747	17-51N 106-25E

NAME: HOA BINH

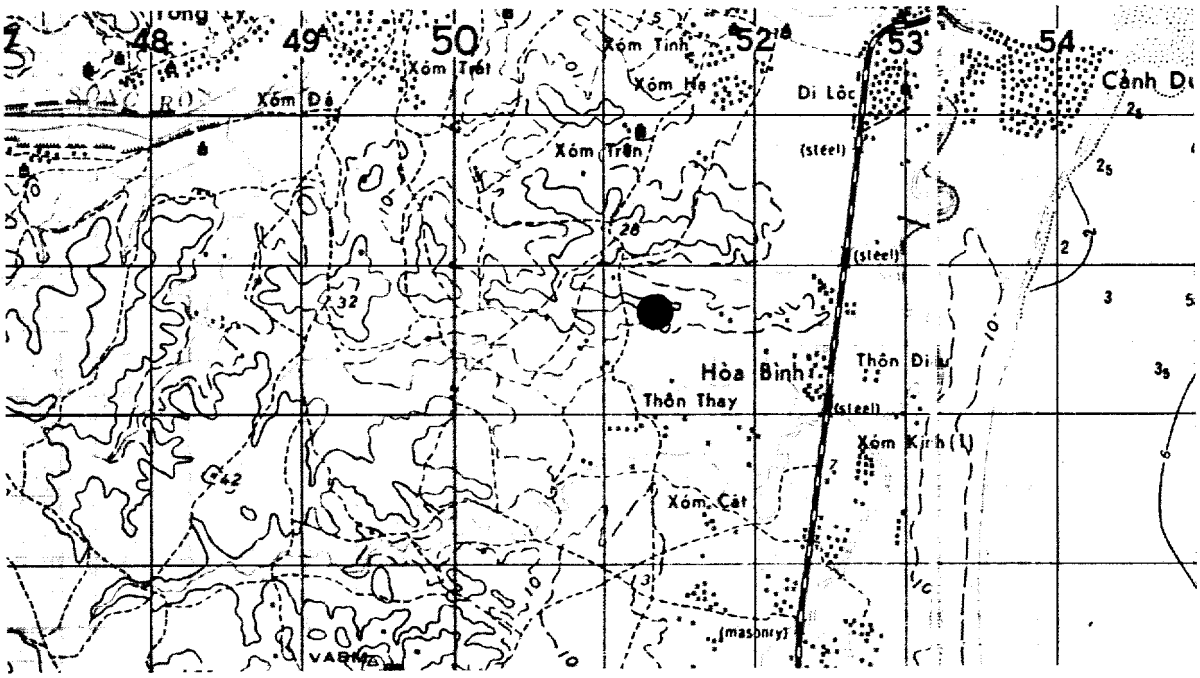
LOCATION: 0.6 NM NW OF HOA BINH AND 26.3 NM NNW OF DONG HOI

DESCRIPTION: FACILITY CONSISTS OF A PROBABLE SPOON REST A RADAR, HEAVILY CAMOUFLAGED.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6244-I, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NE 48-11



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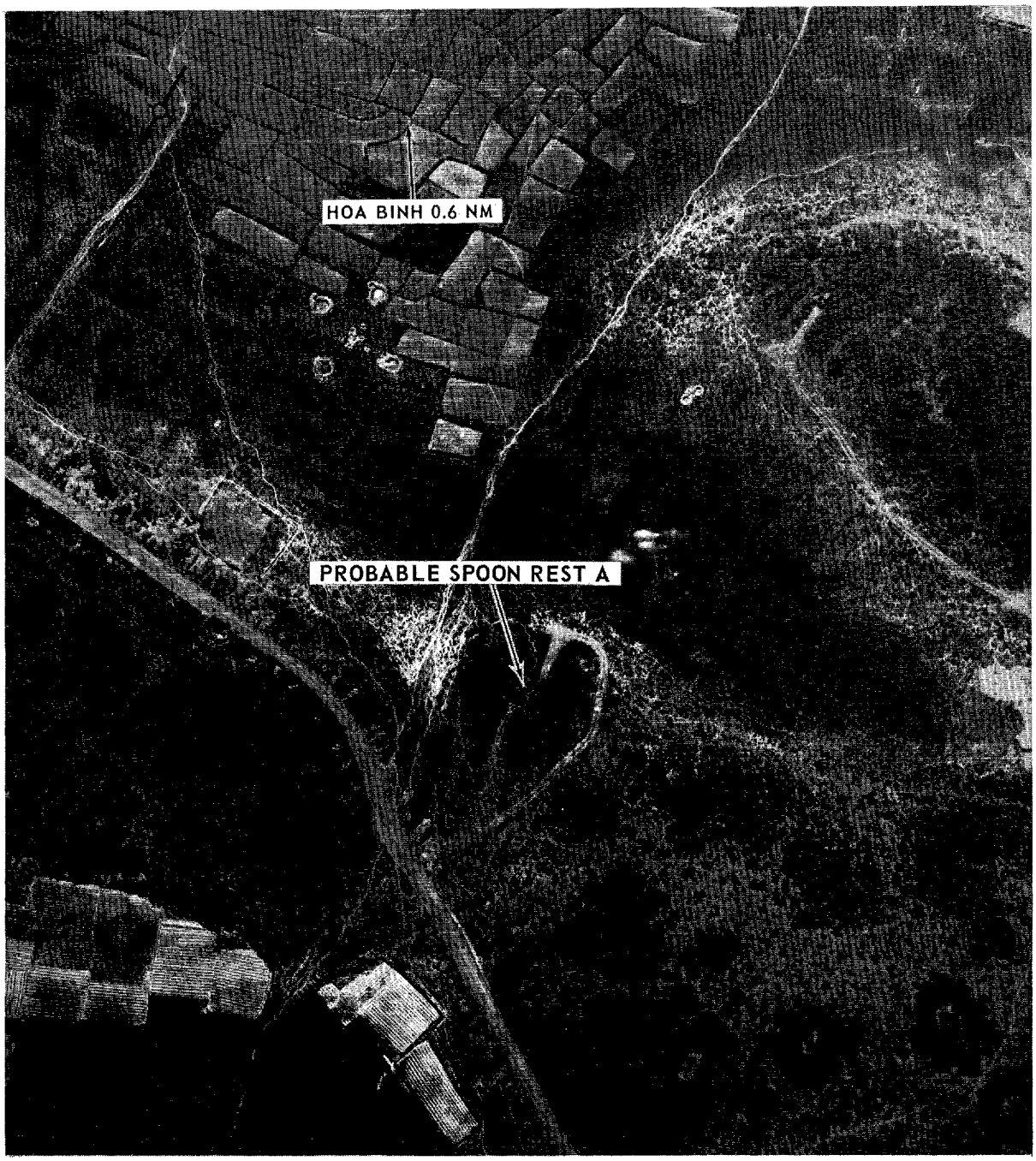
25X1C CONFIDENTIAL
Approved For Release 2000/08/17 : CIA-RDP78B04560A005900010018-5
NPIC/R-32/67
MAY 1967

HOA BINH

XE514747
UTM COORDINATES

17-51N 106-25E
GEOGRAPHIC COORDINATES



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Approved For Release 2000/08/17 : CIA-RDP78B04560A005900010018-5

Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5

BE NUMBER	XH258215 UTM COORDINATES	20-05N 106-12E GEOGRAPHIC COORDINATES

NAME: THANH AM

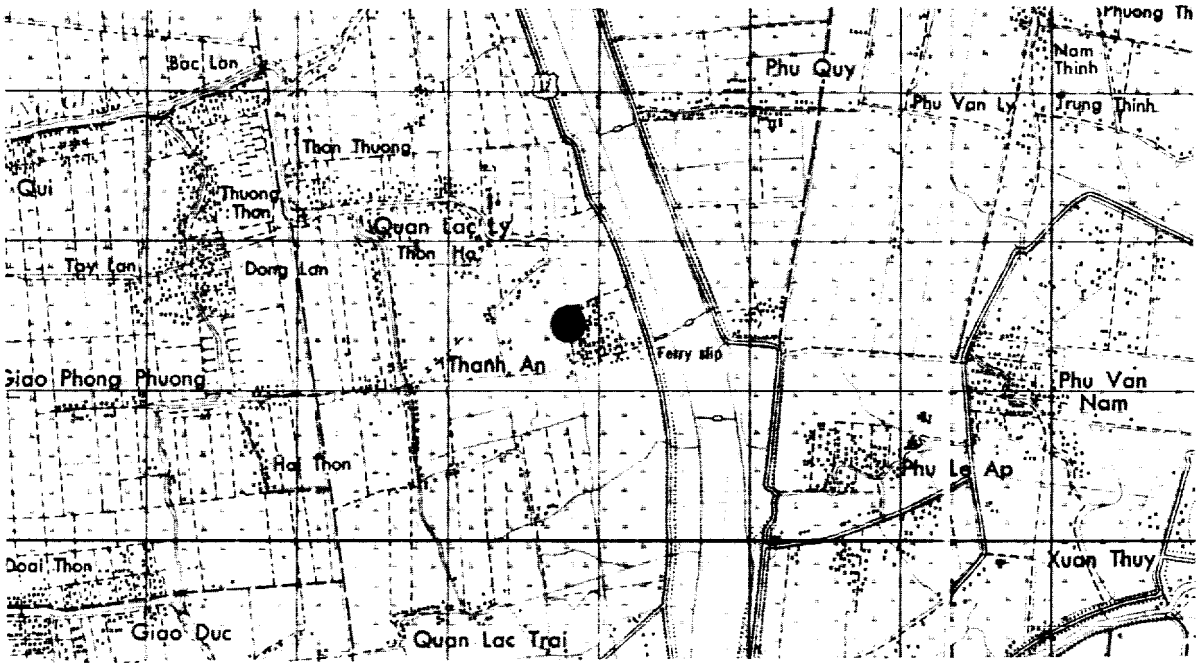
LOCATION: IMMEDIATELY WEST OF THANH AM AND 20.0 NM SOUTH OF NAM DINH

DESCRIPTION: FACILITY CONSISTS OF A POSSIBLE KNIFE REST B RADAR AND A VAN TRUCK, BOTH IN VEHICLE REVETMENTS.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6249-III, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-15



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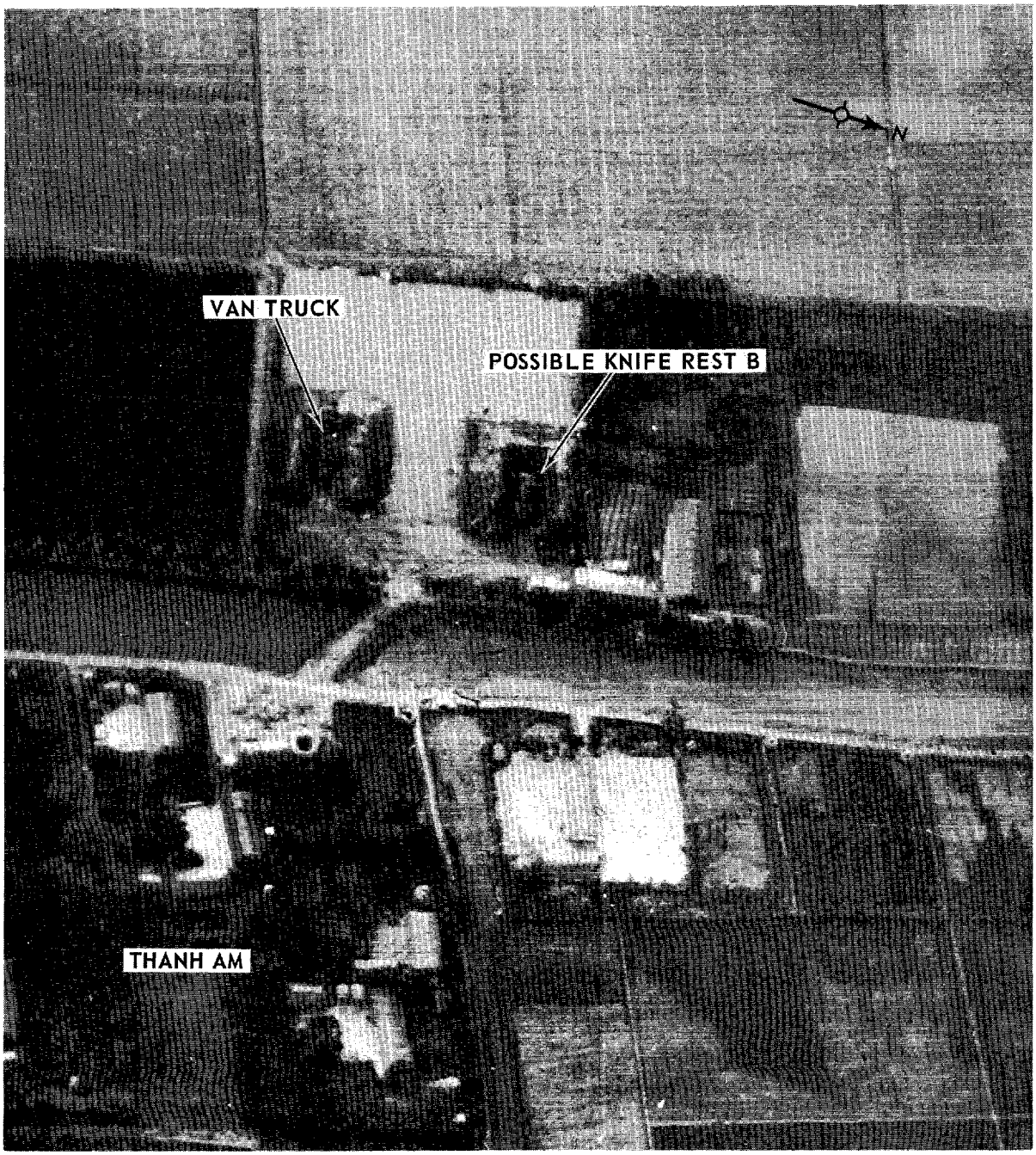
THANH AM

XH258215
UTM COORDINATES

20-05N 106-12E
GEOGRAPHIC COORDINATES



25X1A

[redacted]	WF718823	18-49N 105-40E
BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES

NAME: CUA LO

LOCATION: 2.4 NM NW OF CUA LO AND 10.0 NM NORTH OF VINH

DESCRIPTION: FACILITY CONSISTS OF 2 CROSS SLOT RADARS WITH CAMOUFLAGED ANTENNAS AND 2 REVETTED CONTROL BUILDINGS.

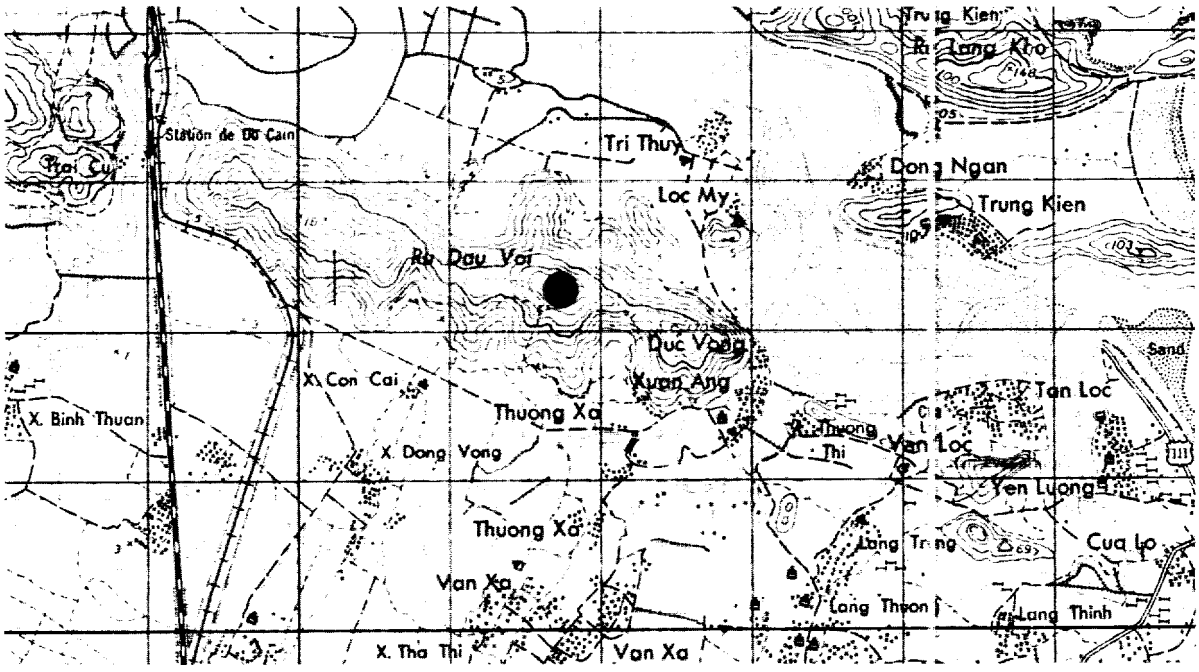
FIVE SUPPORT BUILDINGS ARE ADJACENT TO THE SITE.

SITE HAS BEEN SUBJECTED TO AIR STRIKE RESULTING IN DAMAGE TO 1 OF THE RADAR ANTENNAS.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6146-IV, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NE 48-7

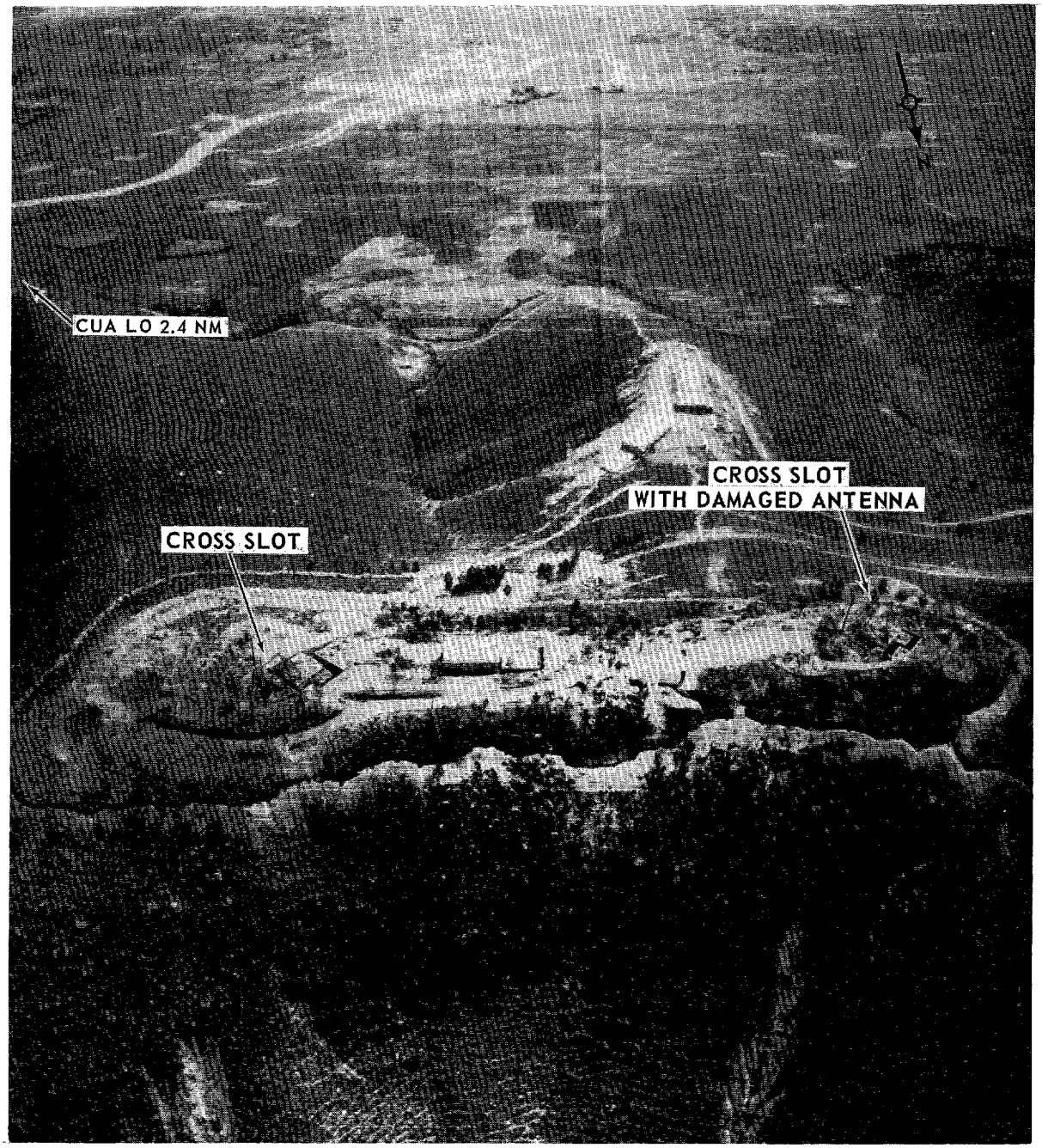


Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
25X1C
CONFIDENTIAL
[redacted]

CUA LO

WF718823
UTM COORDINATES

18-49N 105-40E
GEOGRAPHIC COORDINATES



Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
25X1C
CONFIDENTIAL
[redacted]

BE NUMBER	WG644085 UTM COORDINATES	19-04N 105-36E GEOGRAPHIC COORDINATES

NAME: YEN VINH

LOCATION: 0.7 NM NW OF YEN VINH AND 45.0 NM SOUTH OF THANH HOA

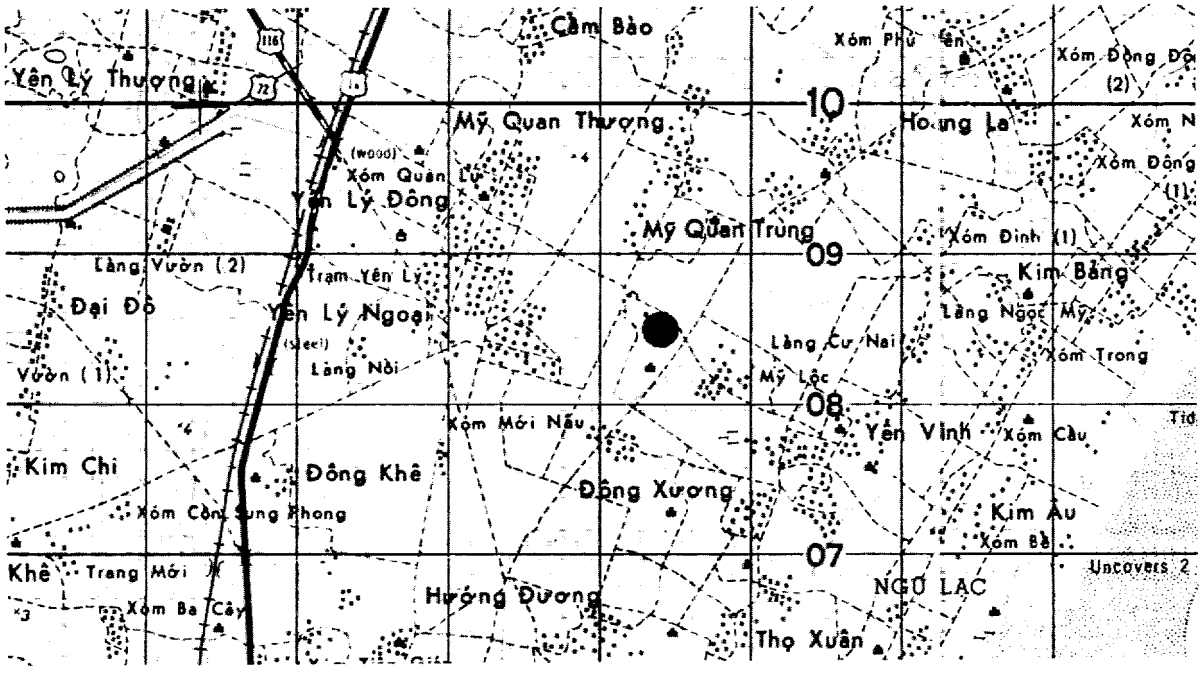
DESCRIPTION: FACILITY CONSISTS OF 1 FLAT FACE RADAR WITH A GENERATOR TRAILER AND A POSSIBLE SCORE BOARD IFF.

AT LEAST 5 UNIDENTIFIED VEHICLES ARE ADJACENT TO THE SITE.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6147-III, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NE 48-3

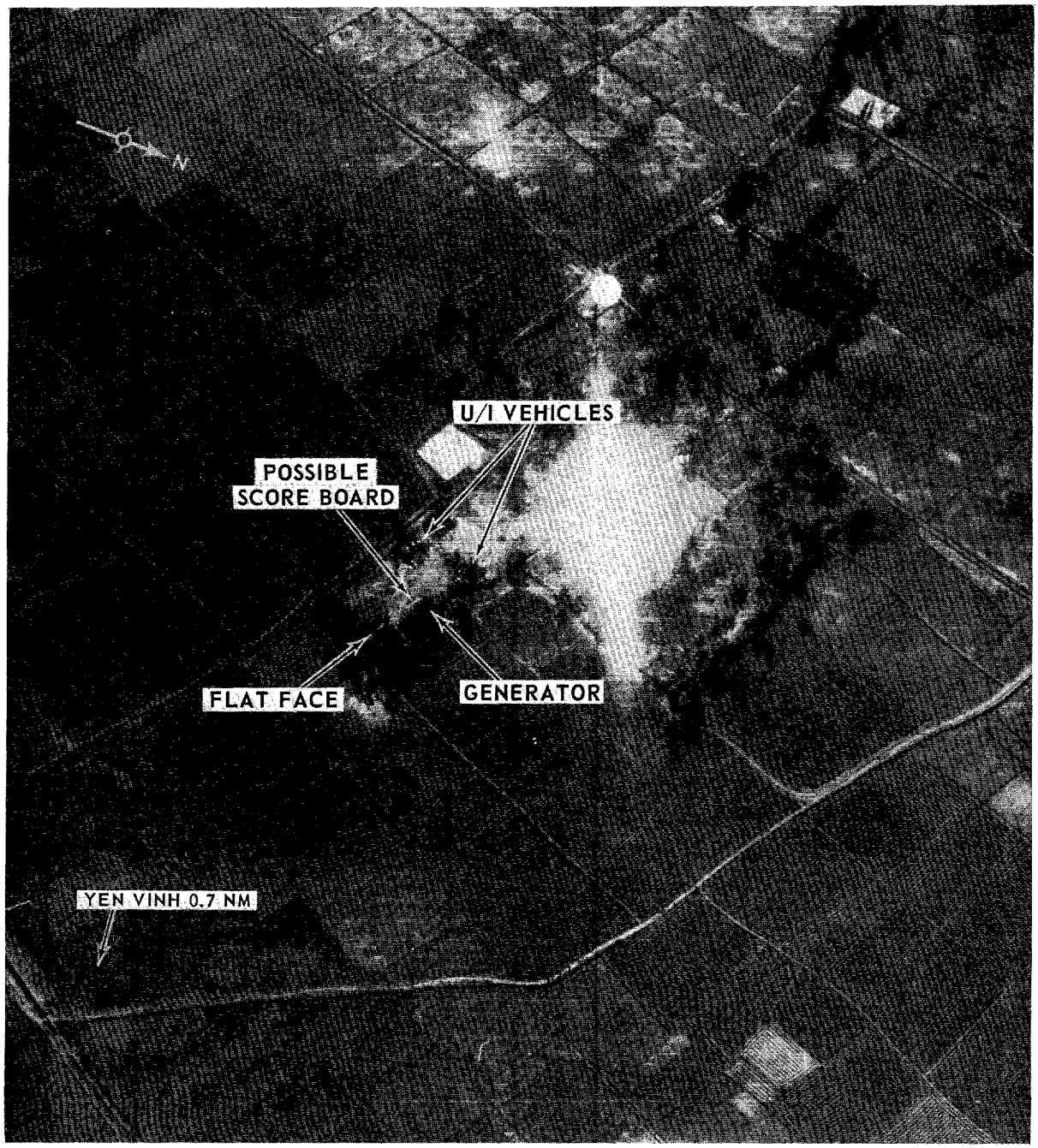


25X1C CONFIDENTIAL
Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
NPIC/D 32/67
MAY 1967

YEN VINH

WG644085
UTM COORDINATES

19-04N 105-36E
GEOGRAPHIC COORDINATES



25X1C CONFIDENTIAL
Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5

Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5

BE NUMBER	WJ851447 UTM COORDINATES	21-12N 105-49E GEOGRAPHIC COORDINATES

NAME: PHUC YEN SE NOI BAI

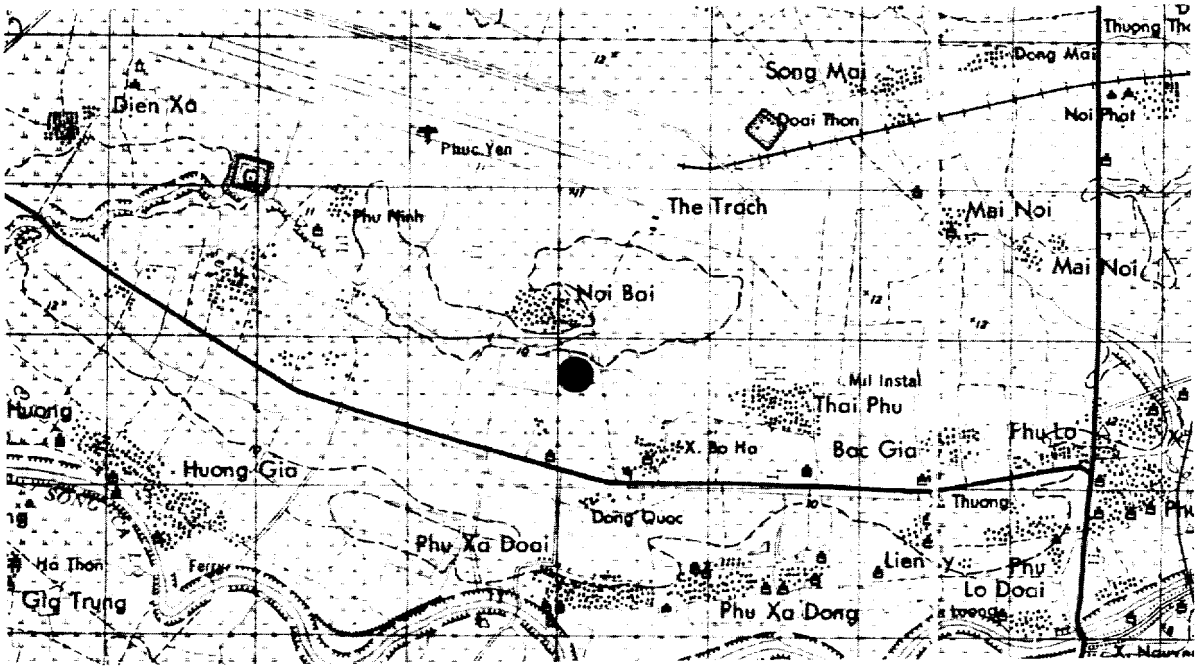
LOCATION: 0.3 NM SOUTH OF NOI BAI AND 1.2 NM SE OF THE PHUC YEN AIRFIELD

DESCRIPTION: FACILITY CONSISTS OF 2 UNOCCUPIED VEHICLE REVETMENTS. A KNIFE REST B OR FLAT FACE RADAR COULD BE INSTALLED AT THIS SITE.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-II, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



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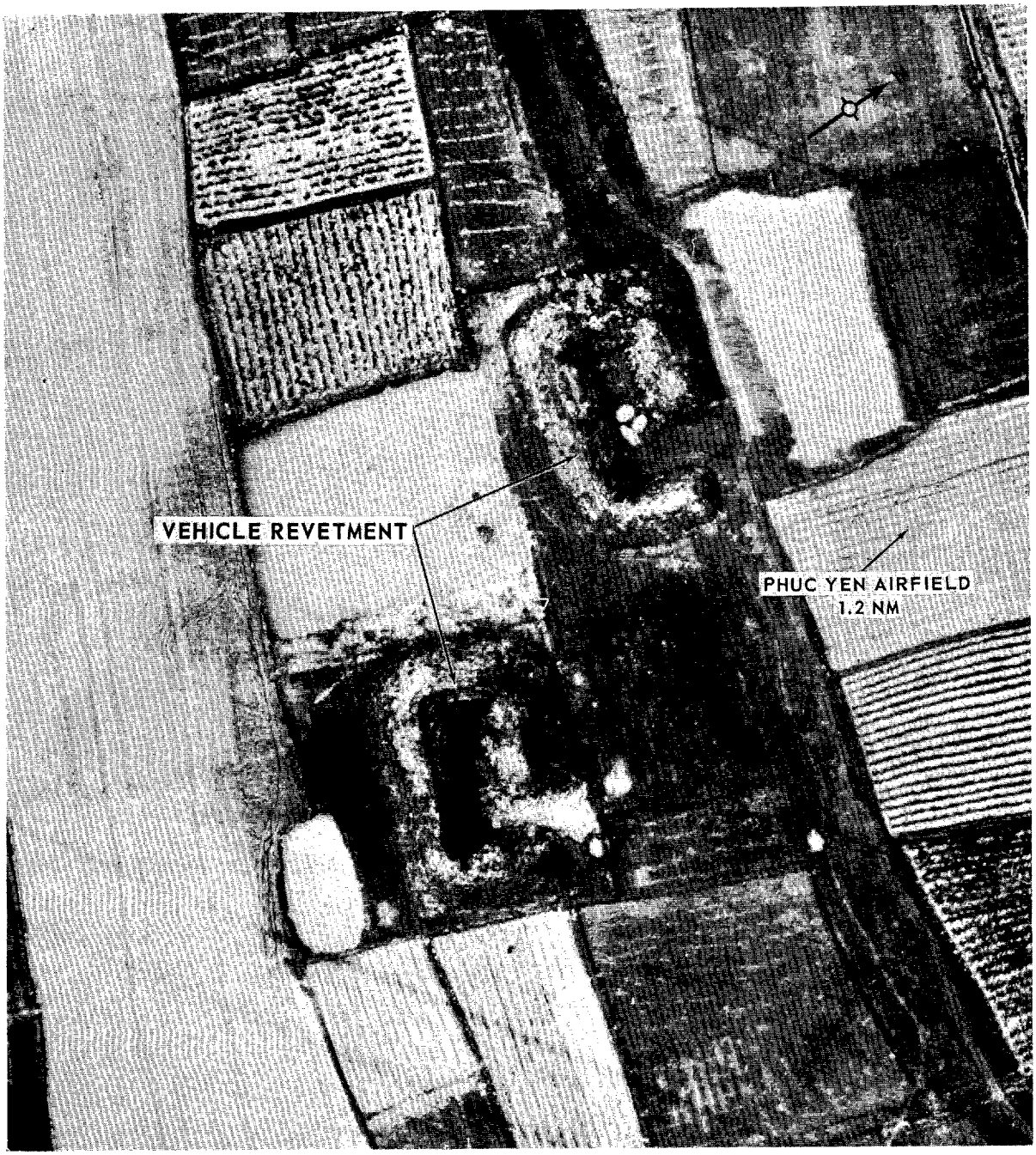
PHUC YEN SE NOI BAI

WJ851447
UTM COORDINATES

21-12N 105-49E
GEOGRAPHIC COORDINATES



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C

CATEGORY C

SURFACE SEARCH

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CATEGORY C

Surface Search

Prior to the beginning of the US air strikes in 1965, the North Vietnamese had deployed CROSS SLOT radars on high ground along the coast and on offshore islands for a combined air search and suface search capability. These sites were subjected to air strikes and are no longer in operation. It is probable that smaller shipboard radars have since been installed along the coast. These have not been identified on photography, probably due to the relatively small size of this equipment and the use of camouflage.

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Approved For [redacted]A005900010018-5

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4	25X1A	My Duc	B-28
5	[redacted]	Cua Lo	B-36

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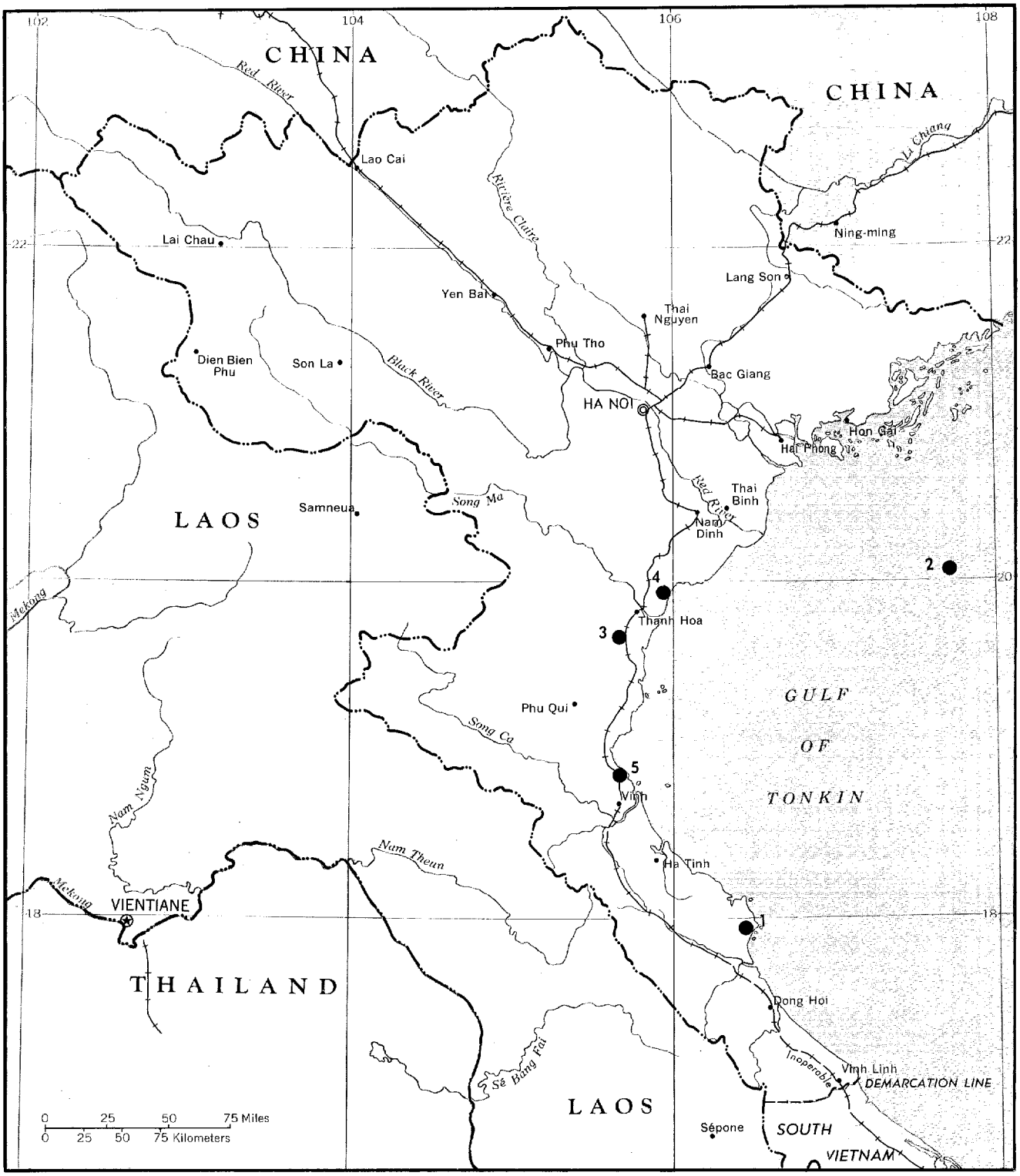

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D

CATEGORY D

GROUND CONTROLLED APPROACH

Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5

Approved For Rele[redacted]900010018-5

CATEGORY D

Ground Controlled Approach

Soviet LONG EYE and HOME TALK ground controlled approach (GCA) equipment has been identified at North Vietnamese airfields. This equipment is normally emplaced adjacent to the runway.

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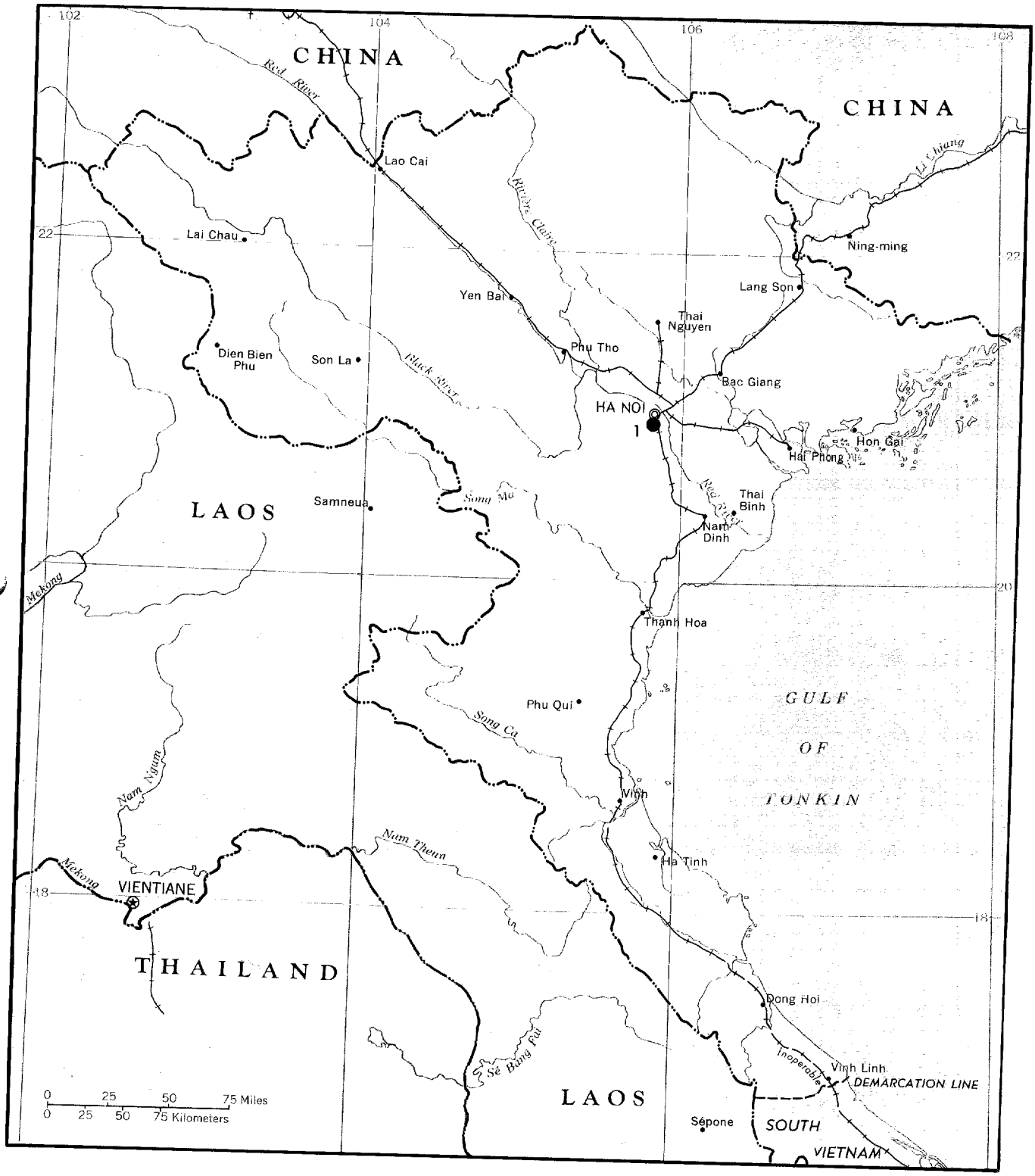
102
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CHINA
CHINA
Red River
Li Chiang
Riviere Claire
Lao Cai
Lai Chau
Ning-ming
Lang Son
Yen Bai
Thai Nguyen
Phu Tho
Dien Bien Phu
Son La
Black River
Bac Giang
HA NOI
Hon Gai
Hai Phong
LAOS
Samneua
Song Ma
Thai Binh
Nam Dinh
Mekong
Thanh Hoa
GULF OF TONKIN
Phu Qui
Song Ca
Nam Ngum
Vinh
Nam Theun
Mekong
VIENTIANE
Ha Tinh
THAILAND
Dong Hoi
Song Se Bang Fai
Inoperable
Vinh Linh
DEMARCATION LINE
LAOS
Sépone
SOUTH
VIETNAM
0 25 50 75 Miles
0 25 50 75 Kilometers

BE NUMBER	WJ871209 UTM COORDINATES	20-53N 105-50E GEOGRAPHIC COORDINATES

NAME: HANOI/BAC MAI AIRFIELD GCA SITE

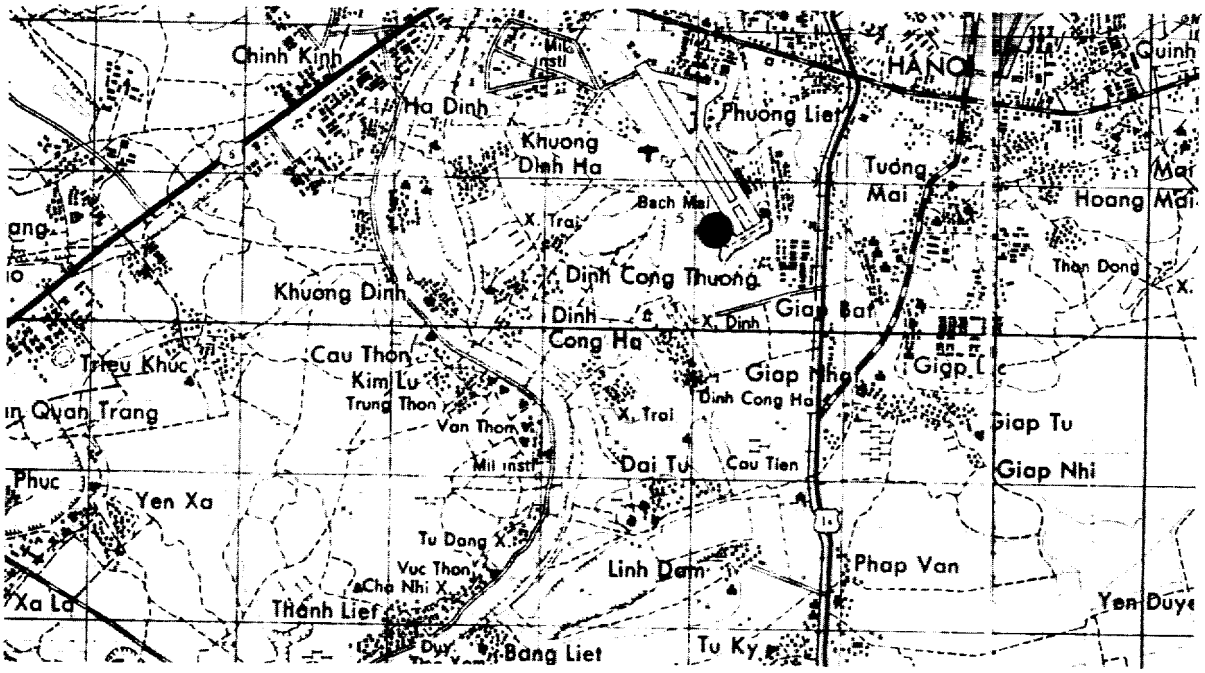
LOCATION: HANOI/BAC MAI AIRFIELD, 2.0 NM SSW OF HA NOI

DESCRIPTION: FACILITY CONSISTS OF A LONG EYE AIR SURVEILLANCE RADAR AND A HOME TALK PRECISION APPROACH RADAR ADJACENT TO THE RUNWAY. THE LONG EYE RADAR IS ON A SMALL MOUND. THE HOME TALK RADAR AND THE CONTROL VAN FOR THE LONG EYE RADAR ARE IN VEHICLE REVETMENTS.

25X1D

PHOTO REFERENCES: [redacted]

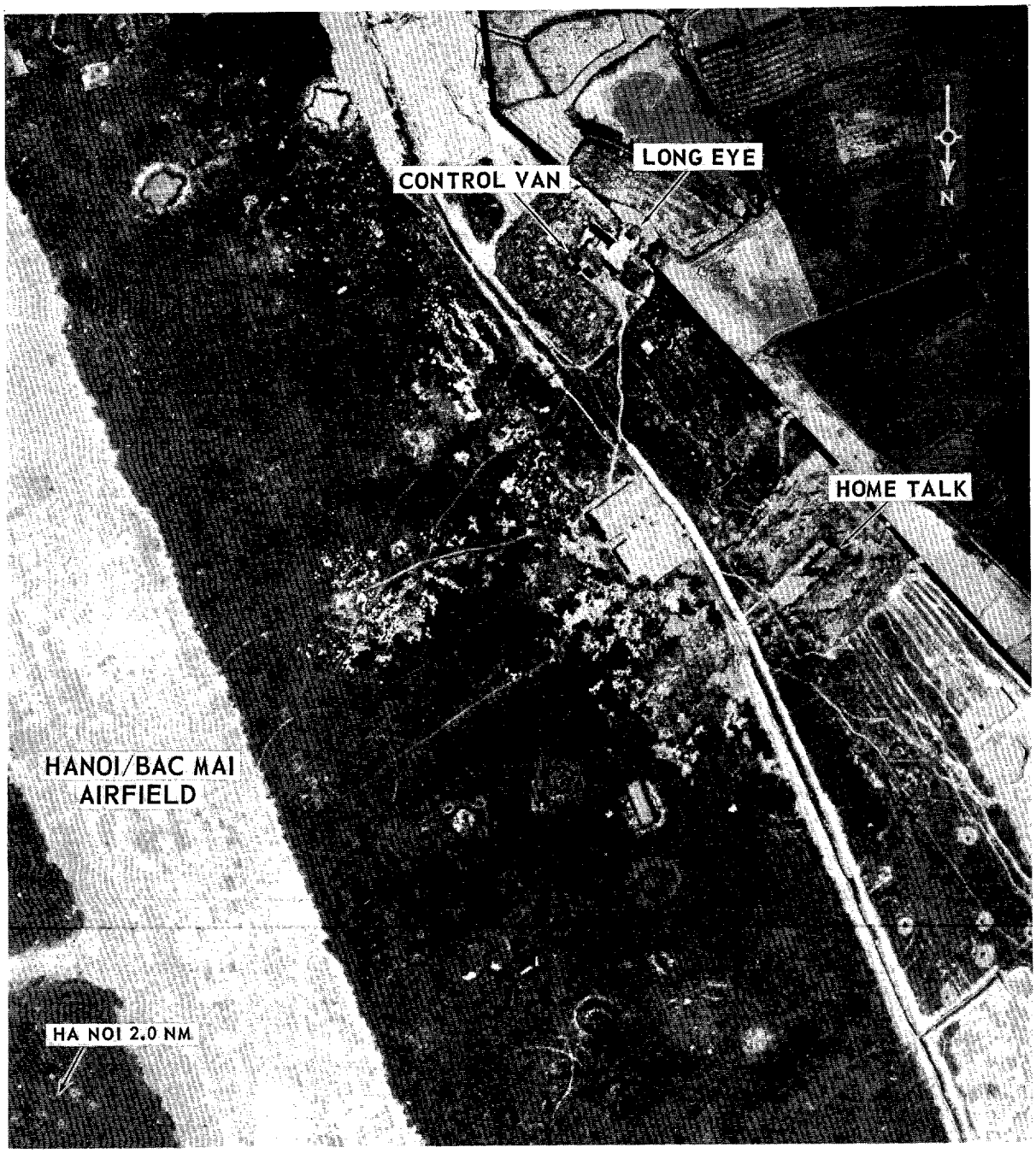
MAP REFERENCES: AMS SERIES L7014, SHEET 6150-I, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-15



HANOI/BAC MAI AIRFIELD GCA SITE

WJ871209
UTM COORDINATES

20-59N 105-50E
GEOGRAPHIC COORDINATES



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Approved For Release 2009/04/17 : CIA-RDP78B04560A005900010018-5

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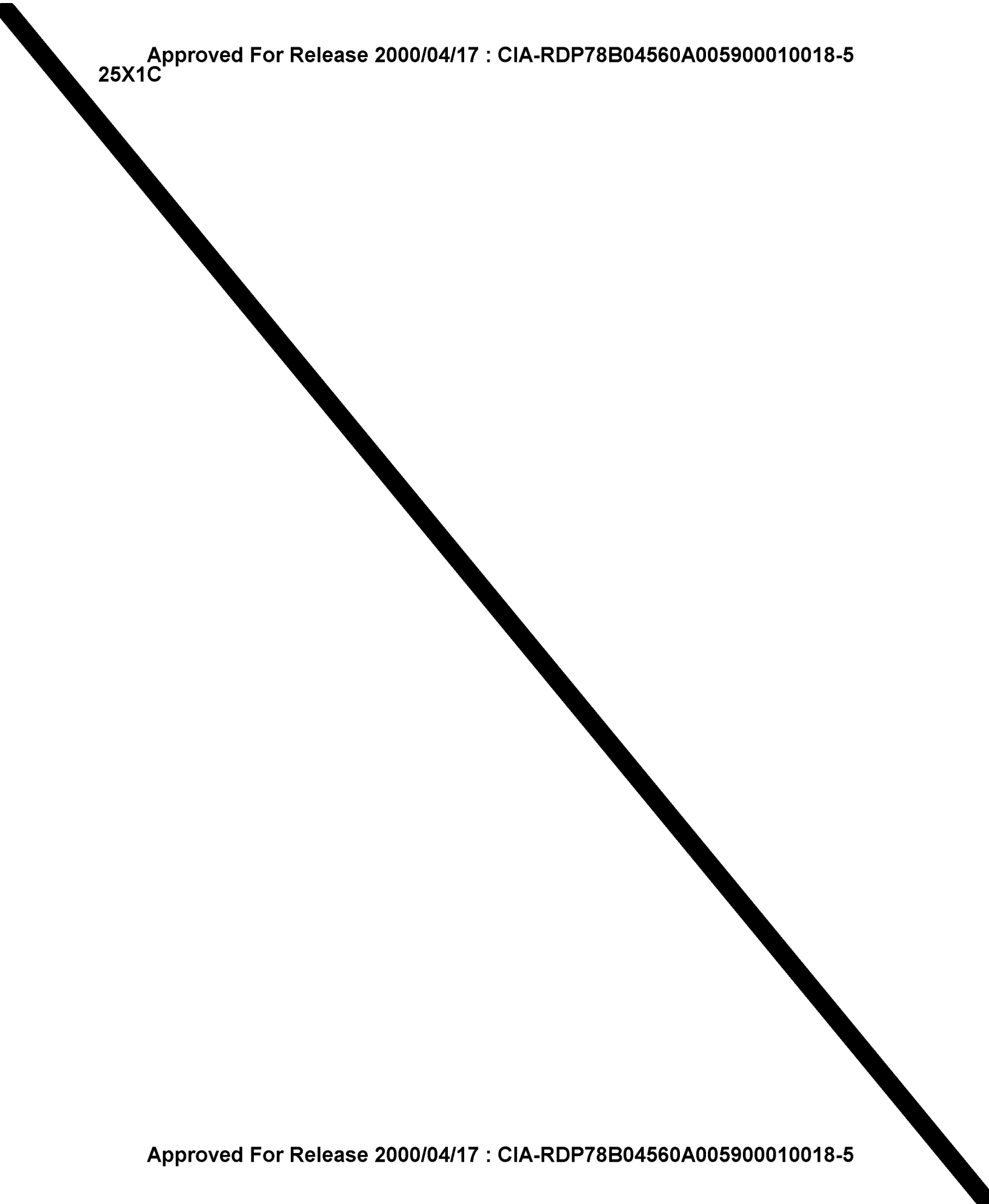
25X1C



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8	13	68	CRS/NRB		2	38
9	3	68	CRS/OLB		1	37
9	16	68	CRS/OLB		1	36
12	6	68	NPIC		1	35
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TITLE

NPIC/R-32/67 CORRECTION June 1967

SECURITY CLASSIFICATION C/NOFORN/EXCEPT [redacted]

505 104

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TITLE

NPIC/R-32/67 CORRECTION June 1967

SEC. CLASSIFICATION C/NOFORN EXCEPT [redacted]

25X1C

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NOTICE

This is the first in a series of updated and supplementary items to be inserted in NPIC/R-32/67, *Southeast Asia Activity Report, Selected Radar Sites, North Vietnam.* Items listed as negated should be deleted from this report.

Updated Items

Page	
A-12	Phuc Yen AW/GCI Site ENE (Duc Hau)
A-16	Ha Dong AW/GCI Facility
A-22	Thuy Ha
A-24	Son Tay (Chieu Dong)

Supplementary Items

Page	
B-42	Xom Phu Thinh

Negated Items

Page	
A-14	Duc Hau Alternate GCI Site

Addenda

Page	
A-6	Phuc Yen. Add BE No [redacted]
A-8	Tang My. Add BE No [redacted]
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CATEGORY A

Air Warning/Ground Controlled Intercept

The North Vietnamese employ a single TOKEN-type radar (usually BAR LOCK or BIG BAR) and a single heightfinder (normally SIDE NET or ROCK CAKE/ STONE CAKE) for air warning/ground controlled intercept (AW/GCI). This is not in accordance with the Soviet practice of providing several similar back-up radars at AW/GCI sites.

The North Vietnamese usually attempt to conceal their GCI sites to protect them from US air strikes; however, well defined sites, such as Thuy Ha (page A-22), have also been constructed.

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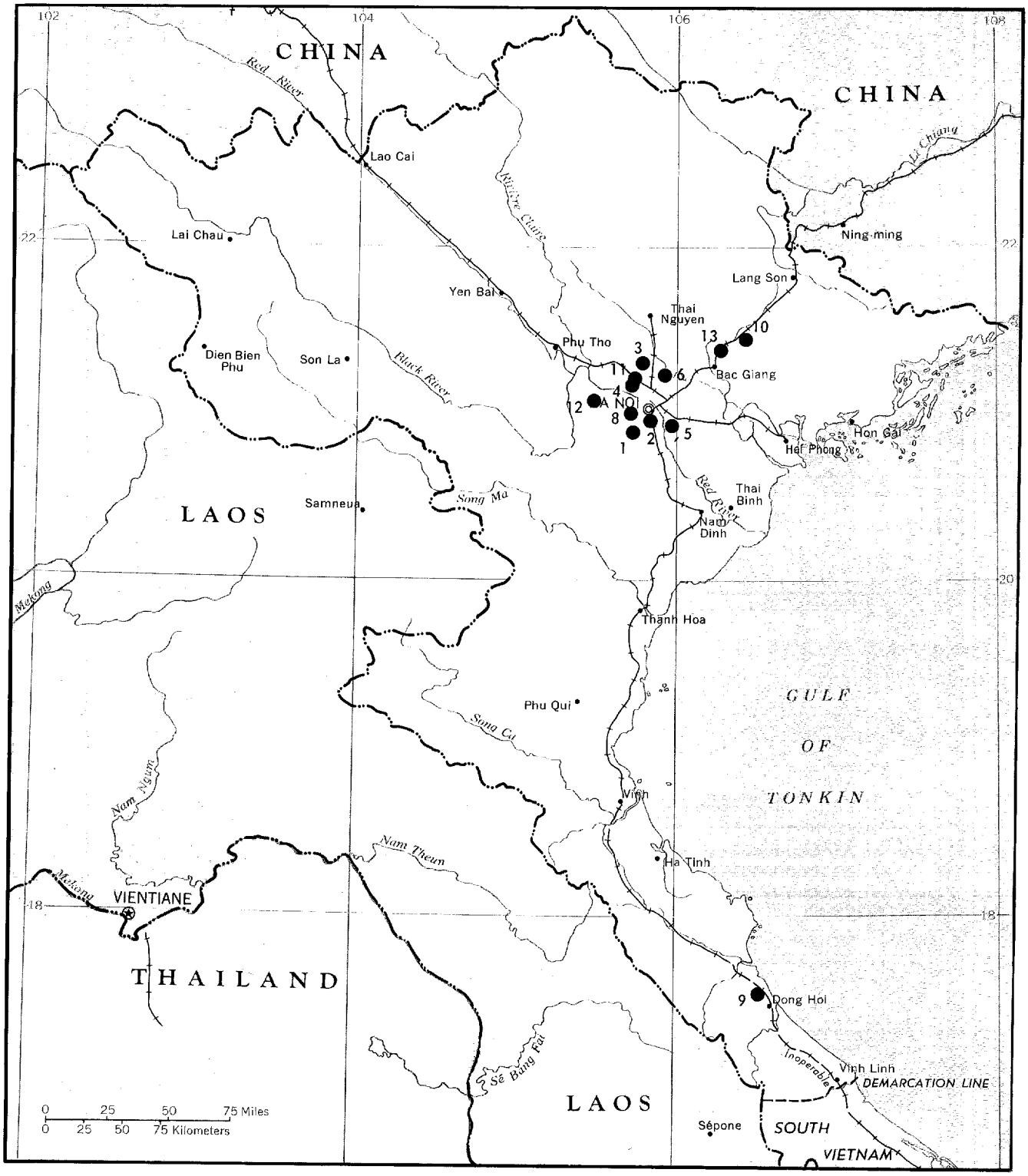

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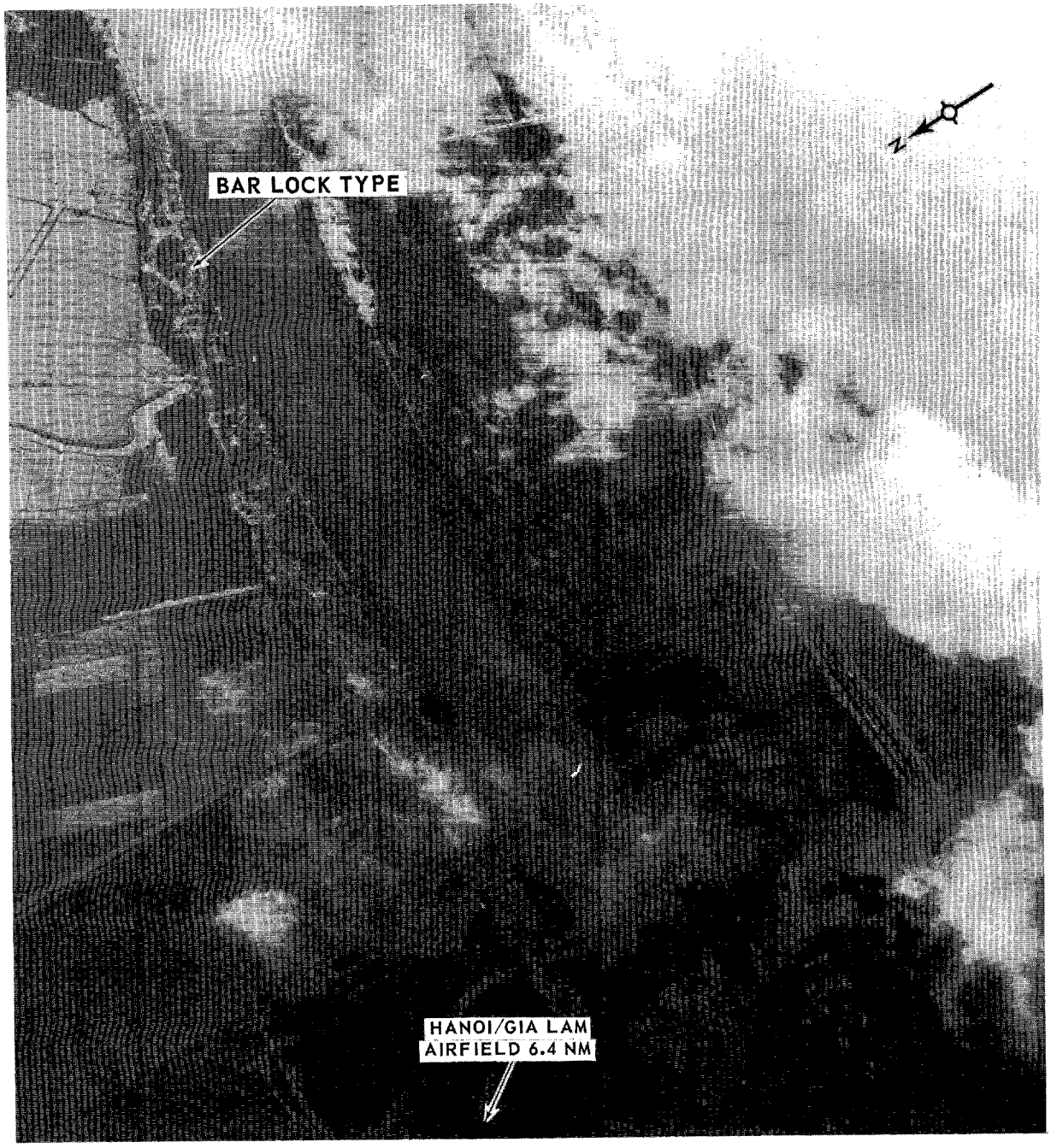
THUONG CHE

XJ012186
UTM COORDINATES

20-58N 105-58E
GEOGRAPHIC COORDINATES



25X1A

[redacted] WJ918484 21-14N 105-53E
BE NUMBER UTM COORDINATES GEOGRAPHIC COORDINATES

NAME: PHUC YEN AW/GCI SITE ENE (DUC HAU)

LOCATION: 4.3 NM ENE OF THE PHUC YEN AIRFIELD

DESCRIPTION: FACILITY CONSISTS OF 4 RADARS (AREAS A THROUGH D). AREA A CONTAINS A BIG BAR ON A MOUND WITH AN END BOX ON EACH REFLECTOR, 2 REVETTED VAN TRAILERS, A REVETTED ANTENNA TRANSPORT TRAILER, A REVETTED VAN TRUCK WITH AN UNIDENTIFIED PROBABLE MAST, AND A TRACKED PRIME MOVER. CABLES CONNECT THE BIG BAR WITH THE VAN TRAILERS AND THE VAN TRUCK. FIVE SUPPORT BUILDINGS (ONE REVETTED) ARE IN THE IMMEDIATE VICINITY AND A REVETTED VAN TRUCK WITH AN UNIDENTIFIED MAST IS IMMEDIATELY EAST OF THE BIG BAR.

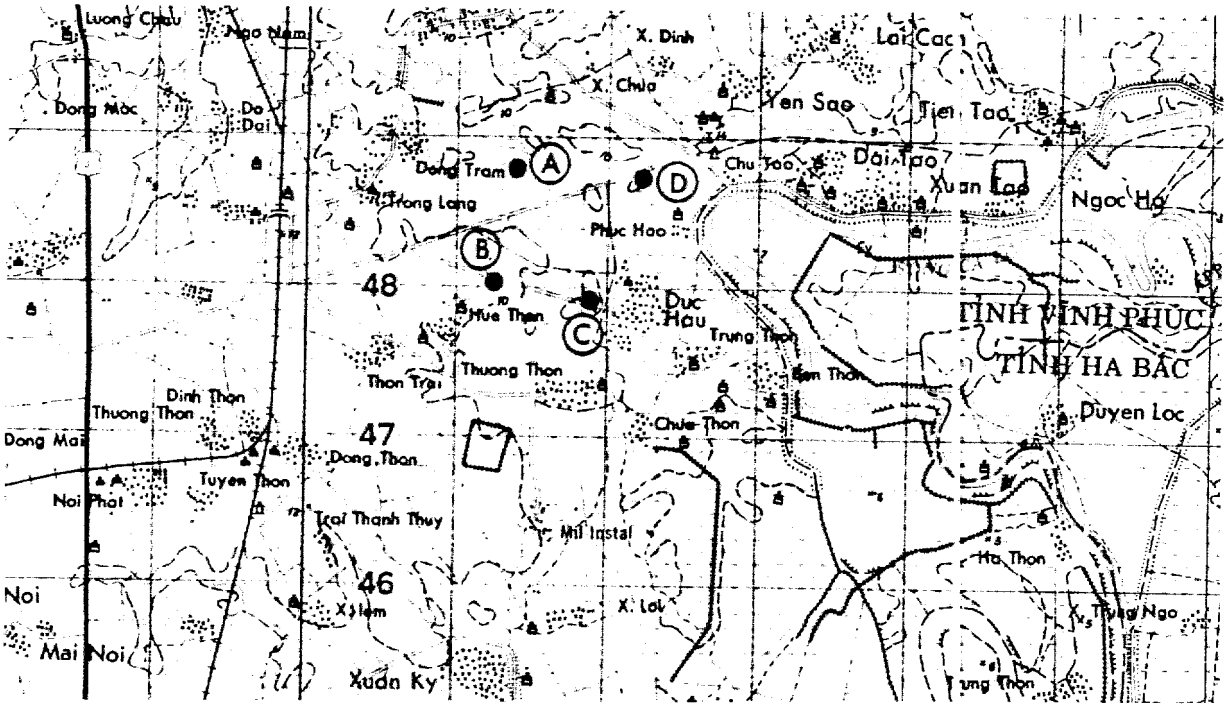
AREA B CONTAINS A SIDE NET ON A MOUND WITH 2 ADJACENT VAN TRAILERS AND A SUPPORT BUILDING.

AREA C CONTAINS A REVETTED KNIFE REST B AND A REVETTED VAN TRUCK. THE BIG BAR AND SIDE NET RADARS WERE LOCATED HERE ON [redacted] 25X1D

AREA D CONTAINS A REVETTED PROBABLE FLAT FACE RADAR, A REVETTED SINGLE-AXLE TRAILER, AND A SUPPORT BUILDING.

25X1D PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-II, 1ST ED, 1965 (U)



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25X1C
CONFIDENTIAL

BE NUMBER	WJ915487 UTM COORDINATES	21-14N 105-52E GEOGRAPHIC COORDINATES

NAME: DUC HAU ALTERNATE GCI SITE

LOCATION: 0.6 NM NW OF DUC HAU, 4.2 NM NE OF PHUC YEN AIRFIELD, AND 0.4 NM NNW OF THE DUC HAU GCI SITE

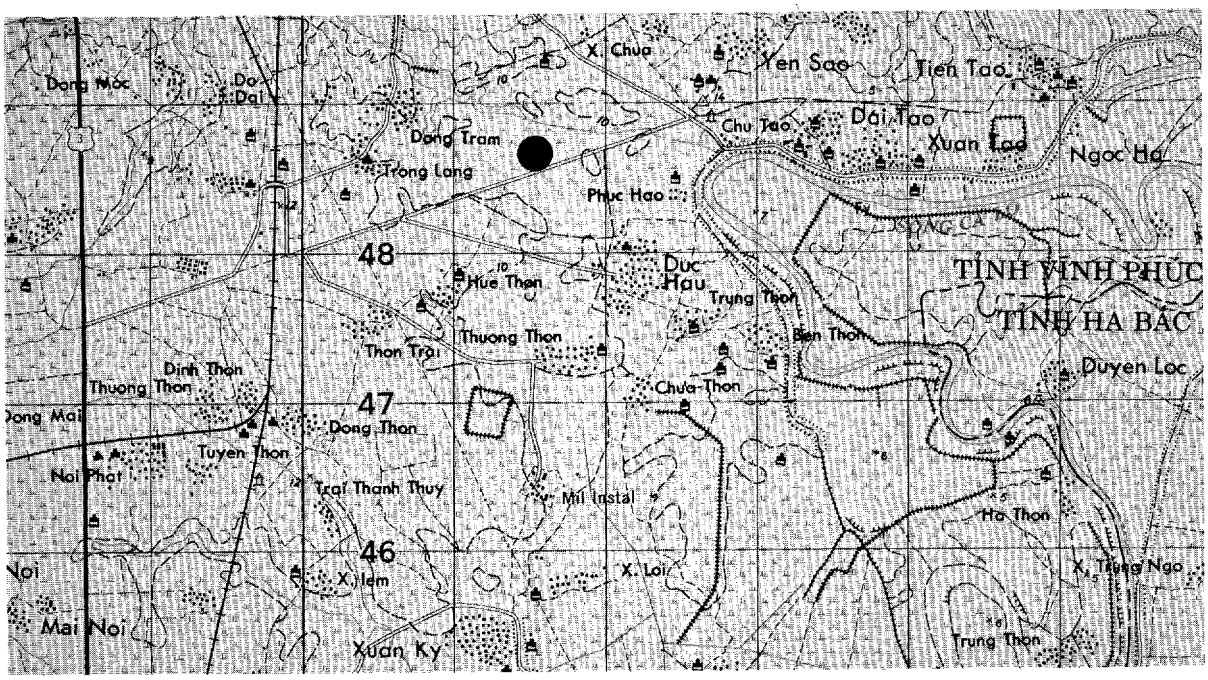
DESCRIPTION: FACILITY CONSISTS OF 2 RADAR MOUNDS AND AT LEAST 6 VEHICLE REVETMENTS.

THIS IS AN ALTERNATE SITE FOR THE RADAR EQUIPMENT AT DUC HAU (PAGE A-12).

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-II, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



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WJ918484
UTM COORDINATES

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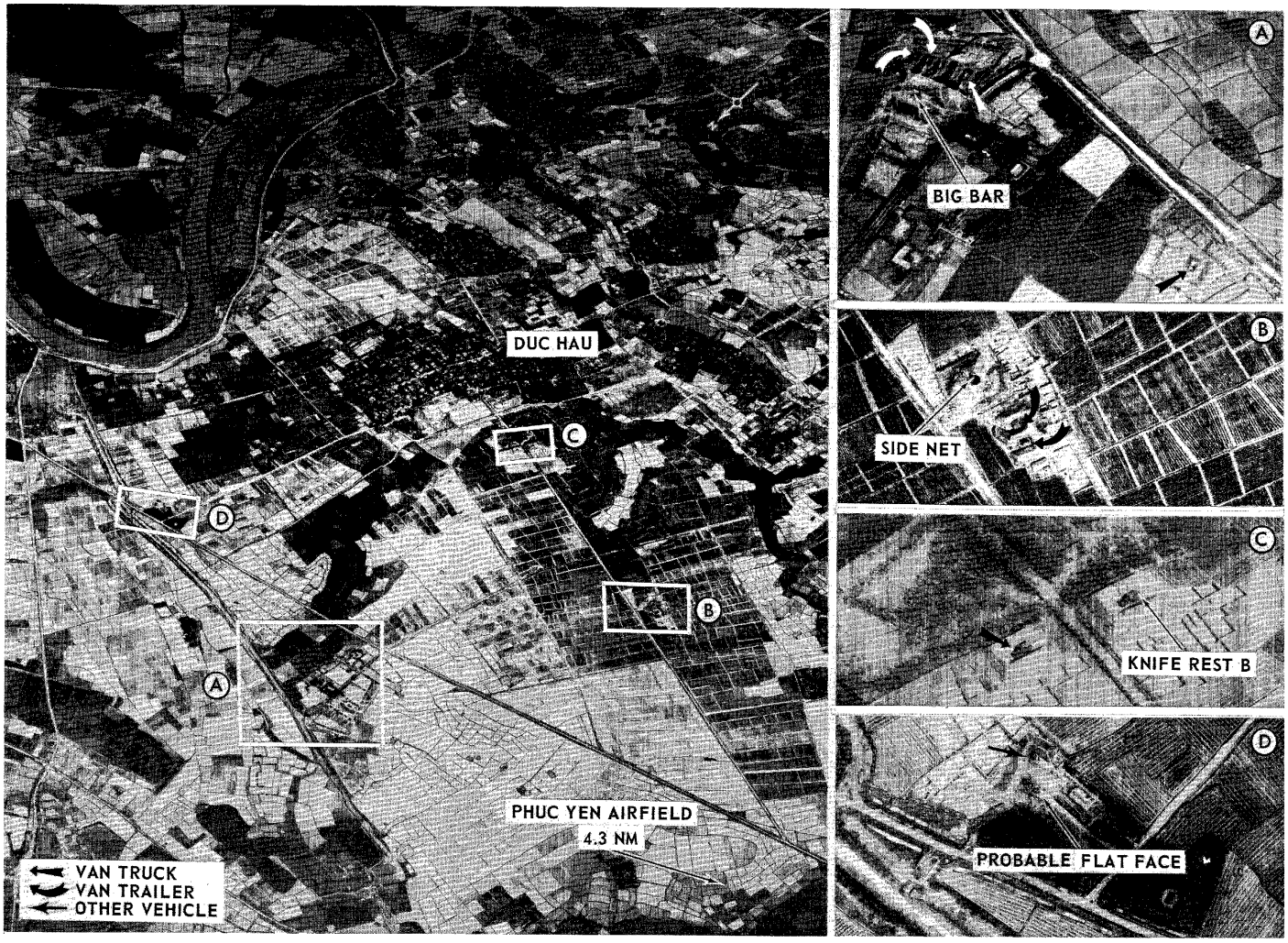
21-14N 105-53E
GEOGRAPHIC COORDINATES



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BE NUMBER	WJ915487 UTM COORDINATES	21-14N 105-52E GEOGRAPHIC COORDINATES

NAME: DUC HAU ALTERNATE GCI SITE

LOCATION: 0.6 NM NW OF DUC HAU, 4.2 NM NE OF PHUC YEN AIRFIELD, AND 0.4 NM NNW OF THE DUC HAU GCI SITE

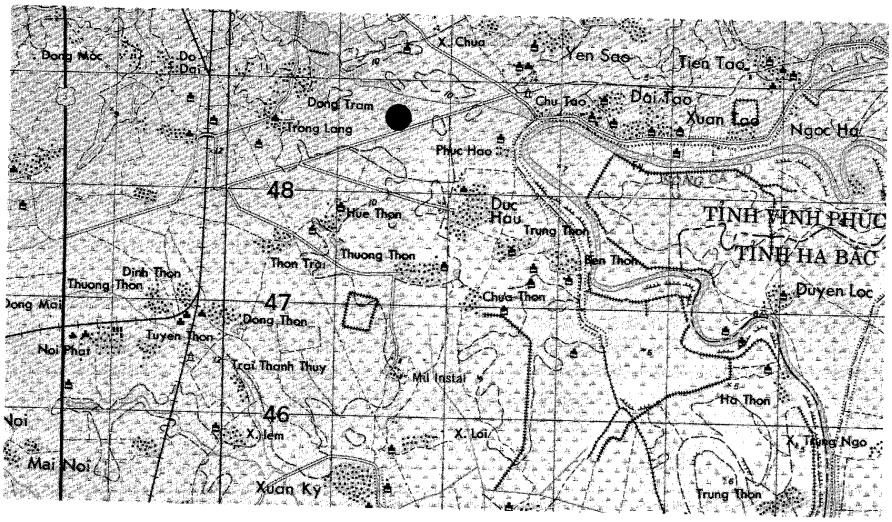
DESCRIPTION: FACILITY CONSISTS OF 2 RADAR MOUNDS AND AT LEAST 6 VEHICLE REVETMENTS.

THIS IS AN ALTERNATE SITE FOR THE RADAR EQUIPMENT AT DUC HAU (PAGE A-12).

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-II, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



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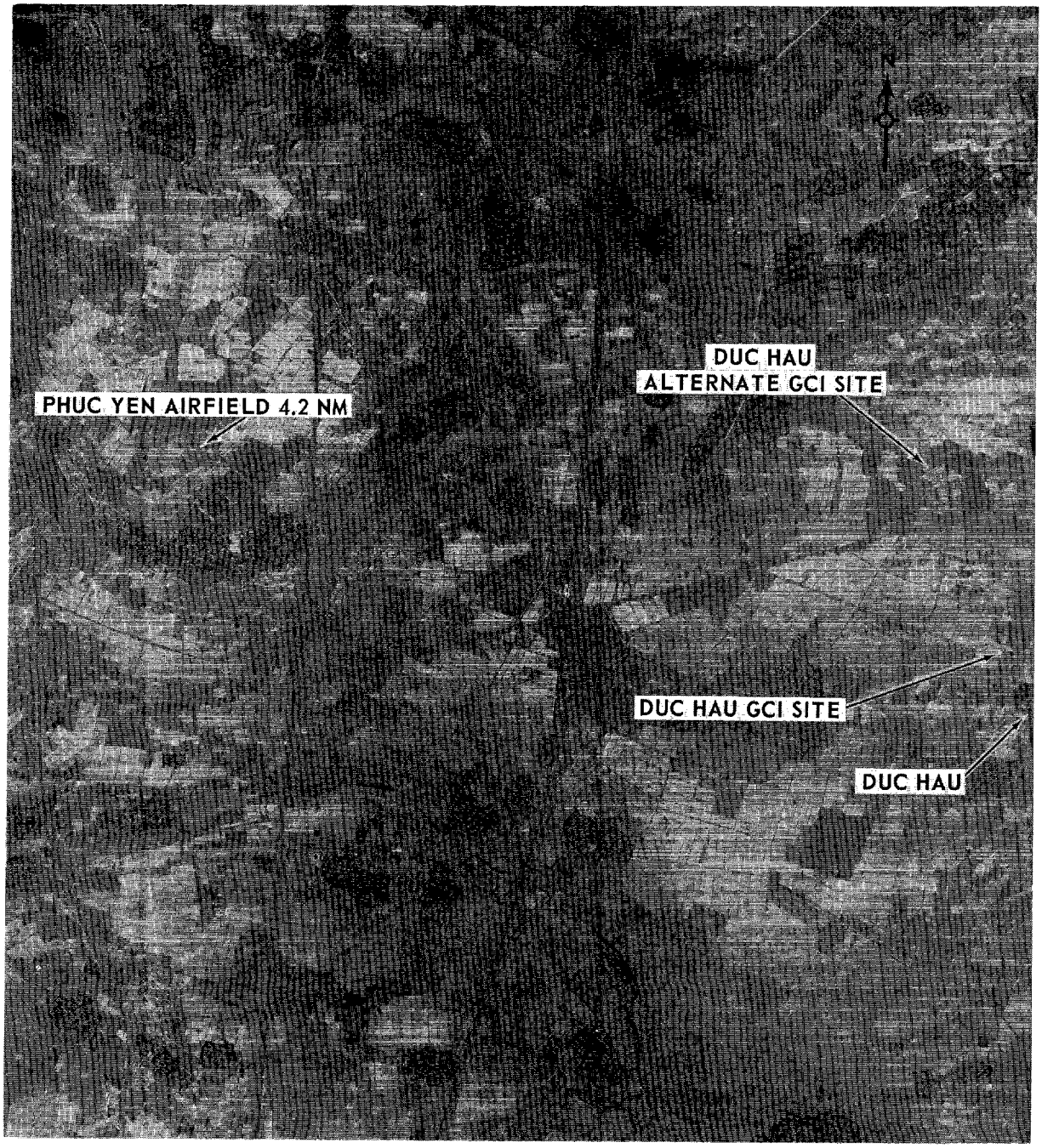
DUC HAU ALTERNATE GCI SITE

WJ915487
UTM COORDINATES

21-14N 105-52E
GEOGRAPHIC COORDINATES



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25X1A

[redacted] WJ759219 20-59N 105-43E
BE NUMBER UTM COORDINATES GEOGRAPHIC COORDINATES

NAME: HA DONG AW/GCI FACILITY

LOCATION: 2.6 NM NW OF HA DONG AND 5.2 NM WEST OF THE HANOI/BAC MAI AIRFIELD

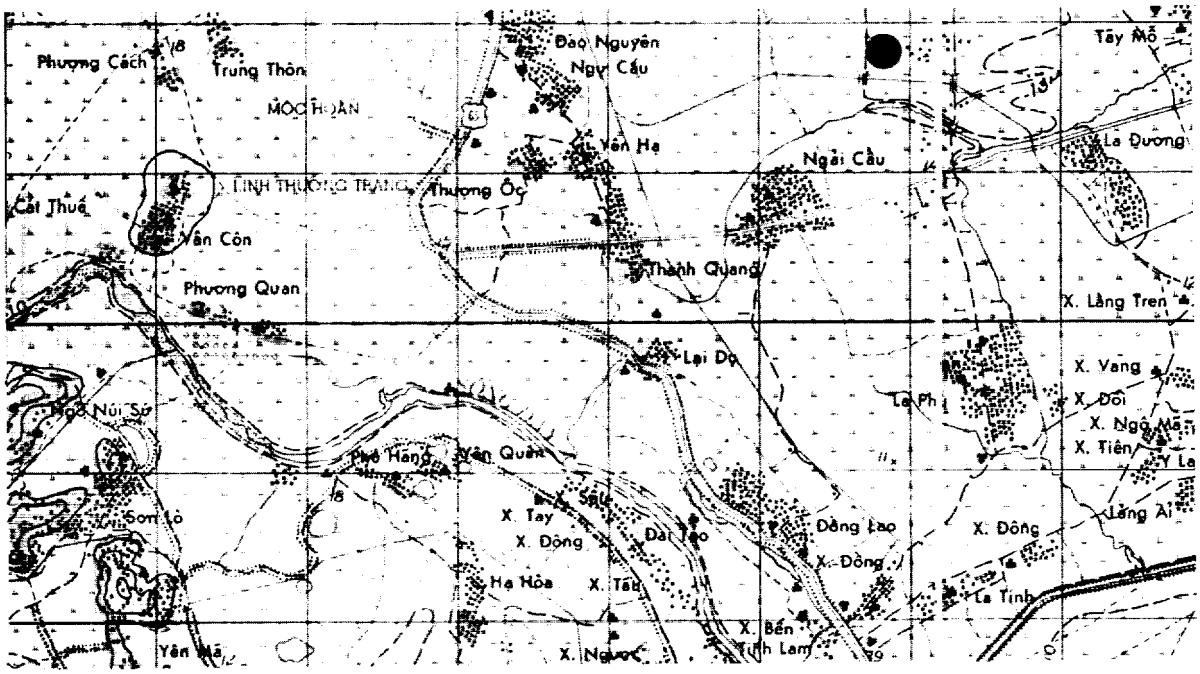
DESCRIPTION: FACILITY CONSISTS OF 2 RADARS ON MOUNDS: A BAR LOCK RADAR WITH 2 REVETTED VAN TRAILERS, 1 REVETTED VAN TRUCK, AND AN ANTENNA TRANSPORT TRAILER AND A SIDE NET RADAR WITH 2 REVETTED VAN TRAILERS.

A REVETTED VAN TRUCK WITH A NEARBY MAST, AN EMPTY REVETMENT, AND SEVERAL SUPPORT BUILDINGS ARE OBSERVED IN THE IMMEDIATE VICINITY.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6150-IV, 1ST ED, 1965 (C)
AMS SERIES 1501, SHEET NF 48-15



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25X1C
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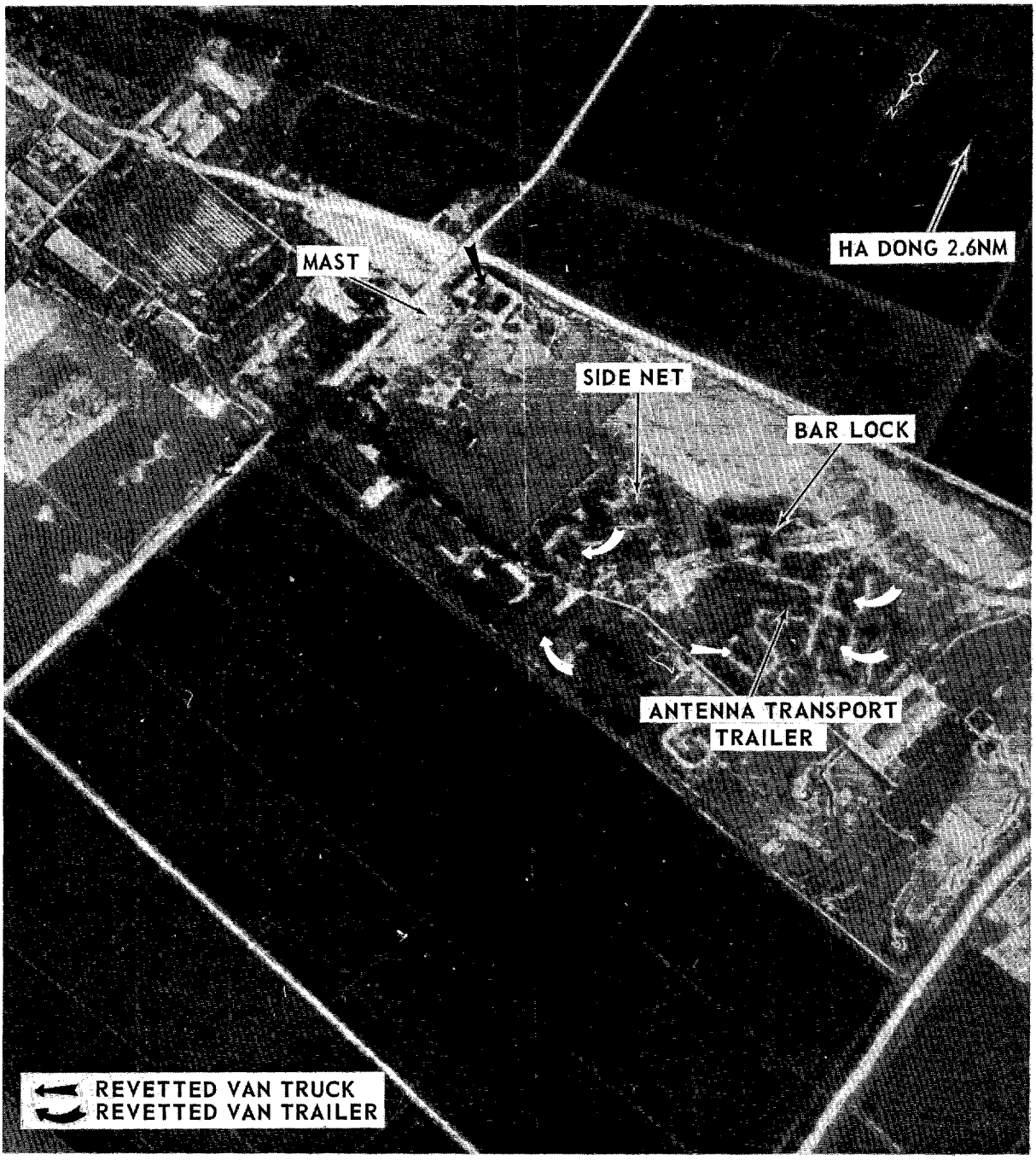
HA DONG AW/GCI FACILITY

WJ759219
UTM COORDINATES

20-59N 105-43E
GEOGRAPHIC COORDINATES



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25X1C
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BE NUMBER	XE644391 UTM COORDINATES	17-32N 106-32E GEOGRAPHIC COORDINATES

NAME: XOM PHUONG

LOCATION: 1.2 NM NORTH OF XOM PHUONG AND 5.8 NM NW OF DONG HOI

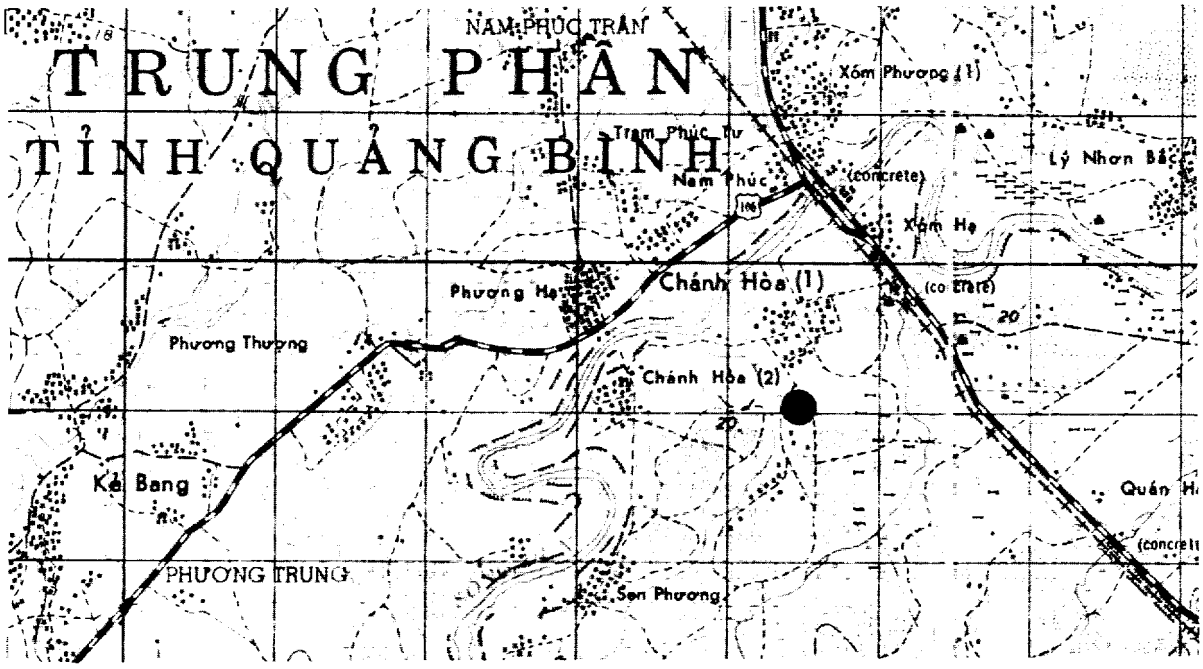
DESCRIPTION: FACILITY CONSISTS OF 1 RADAR MOUND AND 4 UNOCCUPIED VEHICLE REVETMENTS.

FIVE VEHICLE REVETMENTS WITH 6 UNIDENTIFIED VEHICLES AND 3 UNOCCUPIED VEHICLE REVETMENTS ARE IMMEDIATELY NORTH OF THE RADAR SITE.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6344-III, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NE 48-12



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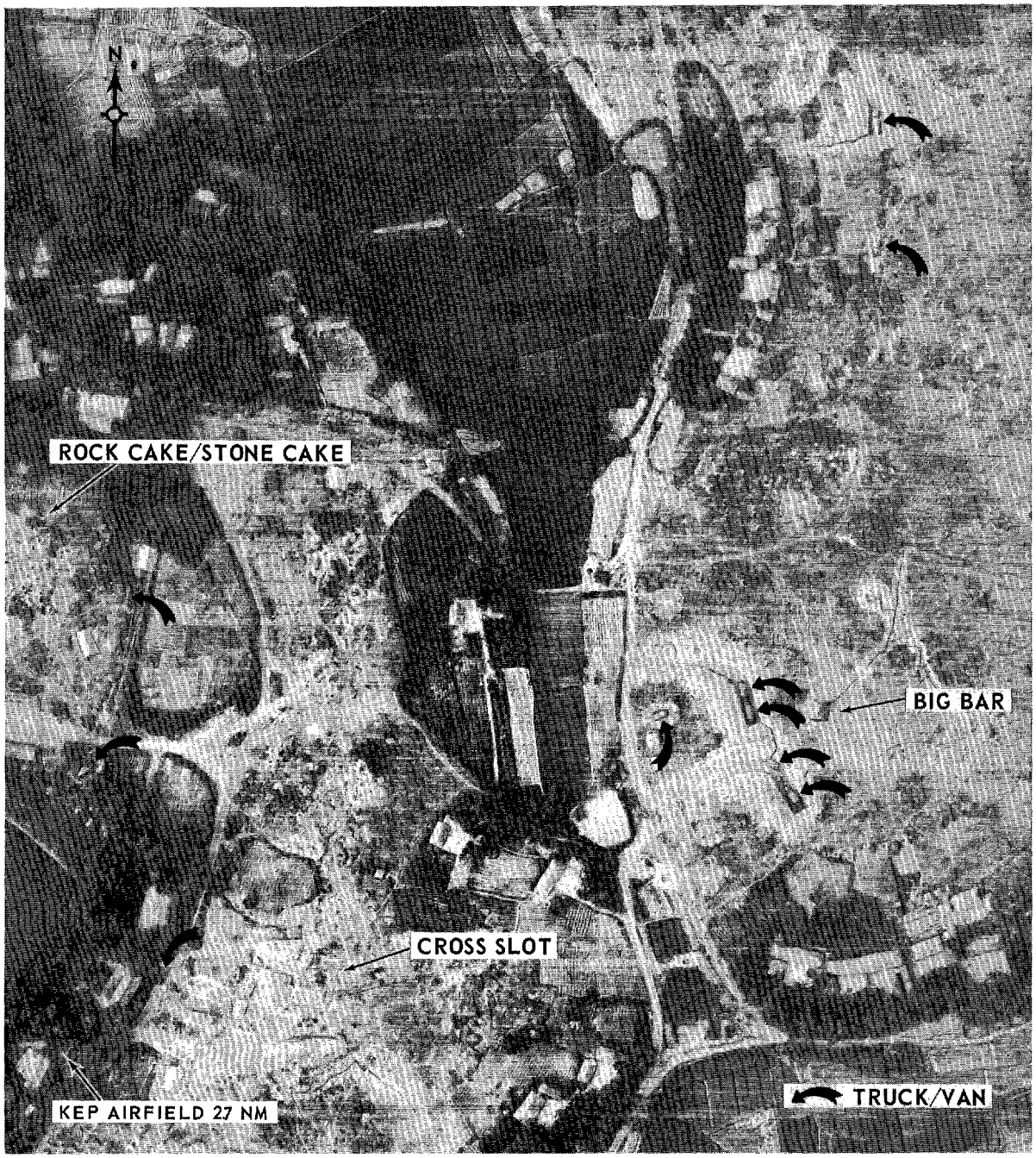
25X1C
CONFIDENTIAL
[redacted]

KEP AW/GCI SITE

XJ336616
UTM COORDINATES

21-21N 106-17E
GEOGRAPHIC COORDINATES



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25X1C
CONFIDENTIAL
[redacted]

BE NUMBER	WJ832423 UTM COORDINATES	21-10N 105-48E GEOGRAPHIC COORDINATES

NAME: THUY HA AW/GCI FACILITY

LOCATION: IMMEDIATELY WEST OF THUY HA AND 2.2 NM SOUTH OF THE PHUC YEN AIRFIELD

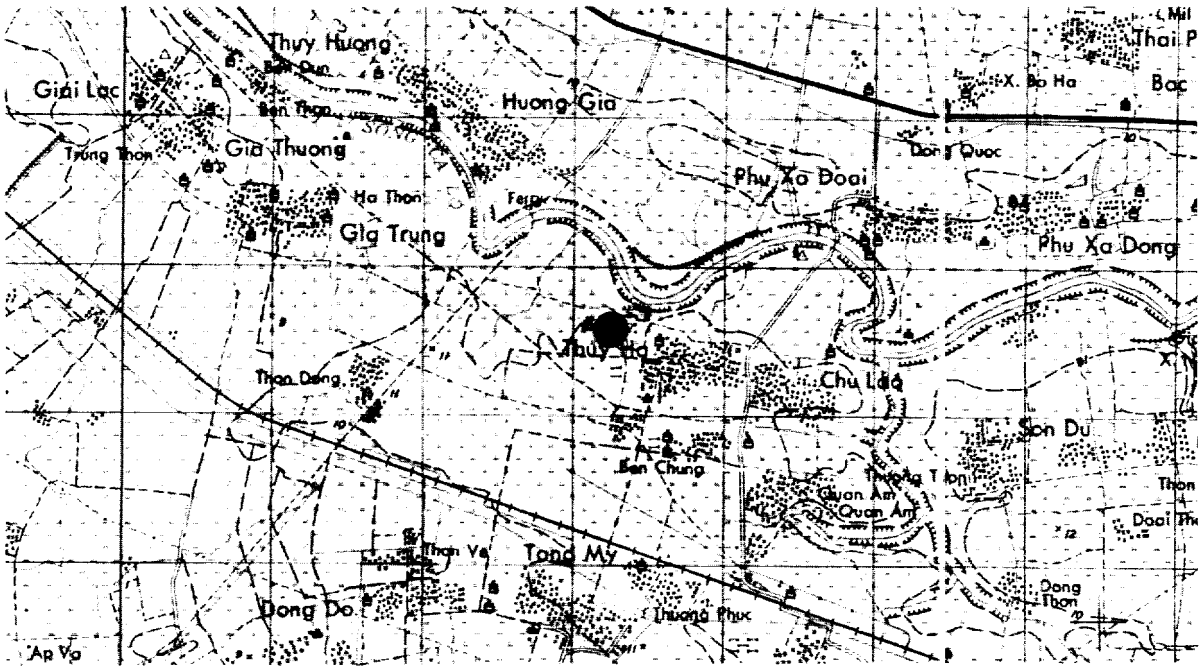
DESCRIPTION: FACILITY CONSISTS OF A BAR LOCK RADAR ON A MOUND WITH 2 REVETTED VAN TRAILERS, 1 REVETTED VAN TRUCK, AND 1 REVETTED ANTENNA TRANSPORT TRAILER; 1 SIDE NET RADAR ON A MOUND WITH 2 REVETTED VAN TRAILERS; AND 1 PROBABLE KNIFE REST B RADAR WITH 1 PROBABLE VAN TRUCK.

AN ADDITIONAL REVETMENT, PARTIALLY SHIELDED BY TREES, IS BETWEEN THE BAR LOCK AND THE SIDE NET.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-II, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



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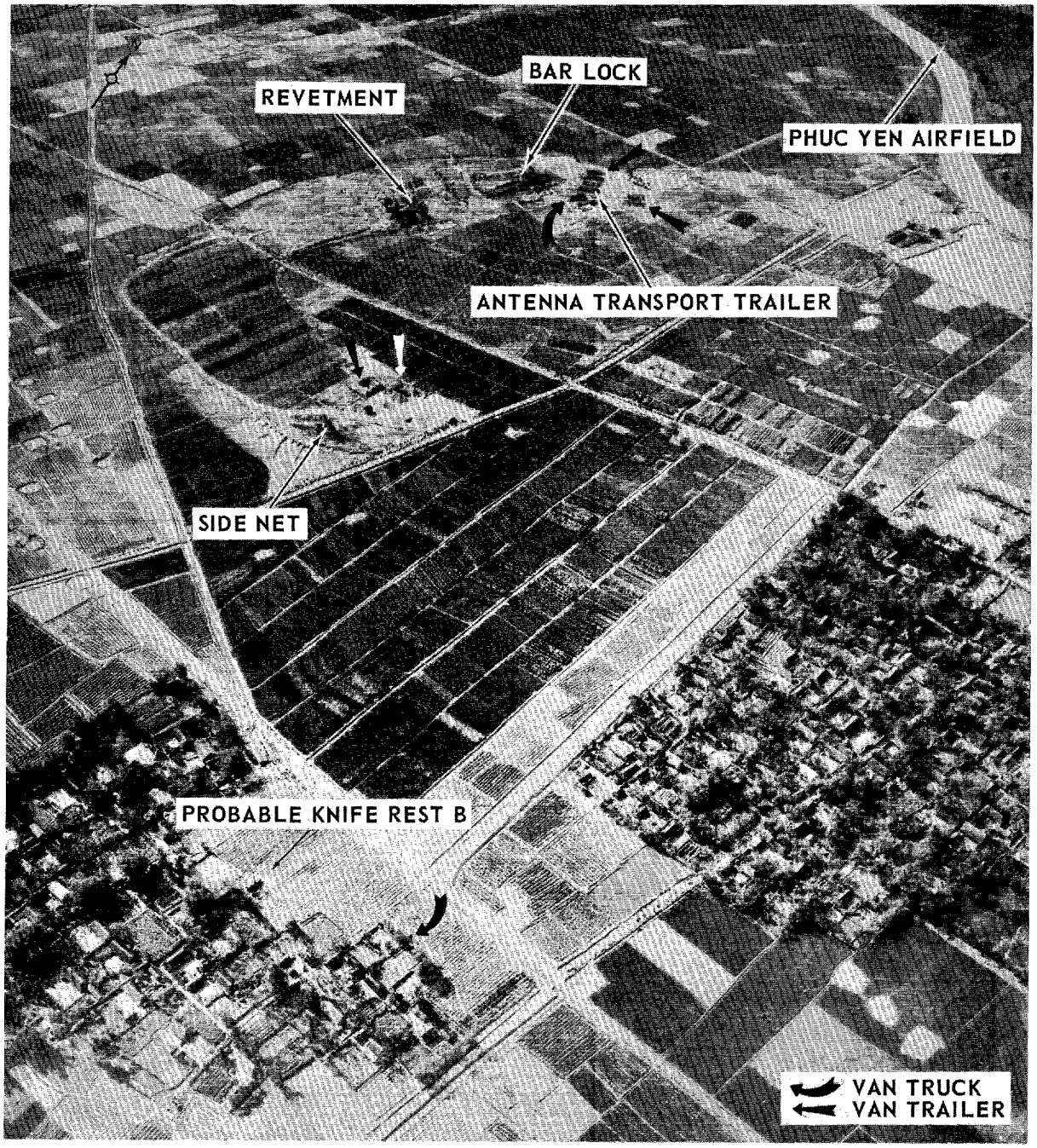
THUY HA AW/GCI FACILITY

WJ832423
UTM COORDINATES

21-10N 105-48E
GEOGRAPHIC COORDINATES



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25X1A

[redacted] BE NUMBER | WJ555304 UTM COORDINATES | 21-04N 105-32E GEOGRAPHIC COORDINATES

NAME: SON TAY (CHIEU DONG)

LOCATION: 4.0 NM SSE OF SON TAY AND 3.7 NM NE OF HOA LAC AIRFIELD

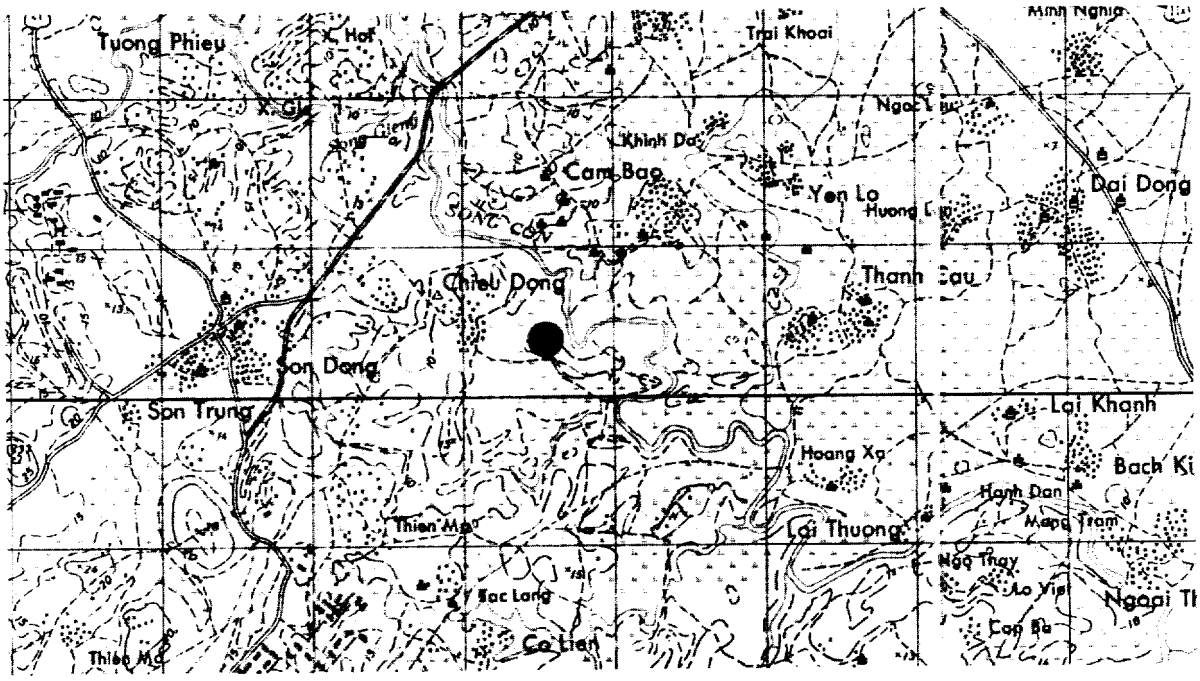
DESCRIPTION: FACILITY CONSISTS OF A SIDE NET AND A BAR LOCK-TYPE RADAR ON MOUNDS.

AT LEAST 4 TRAILER VANS AND 2 UNIDENTIFIED VEHICLES ARE DISCERNIBLE.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-III, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



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[redacted]

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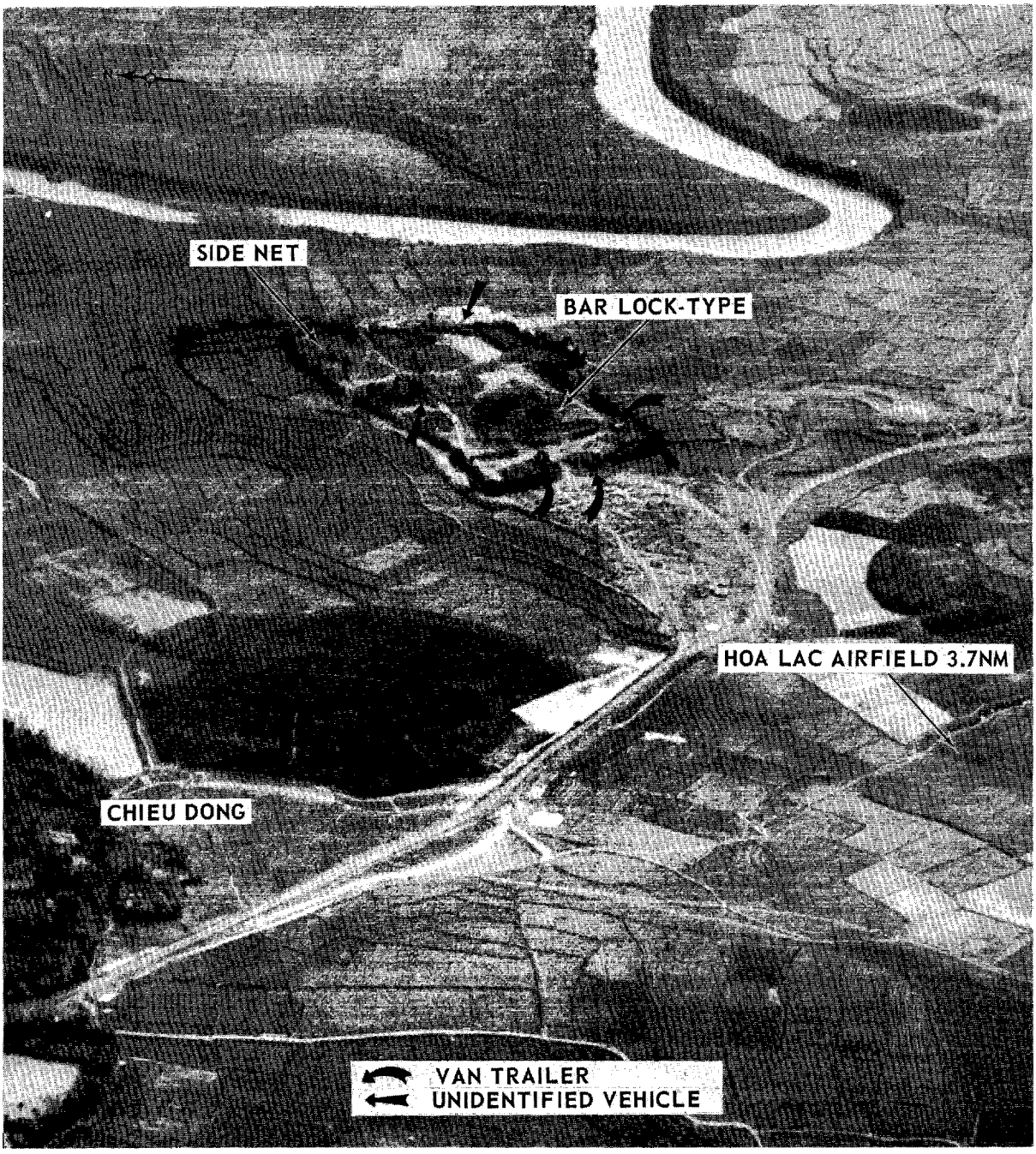
JUNE 1967

SON TAY

WJ555304
UTM COORDINATES

21-04N 105-32E
GEOGRAPHIC COORDINATES



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25X1A

[redacted]	XJ282587	21-19N 106-14E
BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES

NAME: QUANG MO

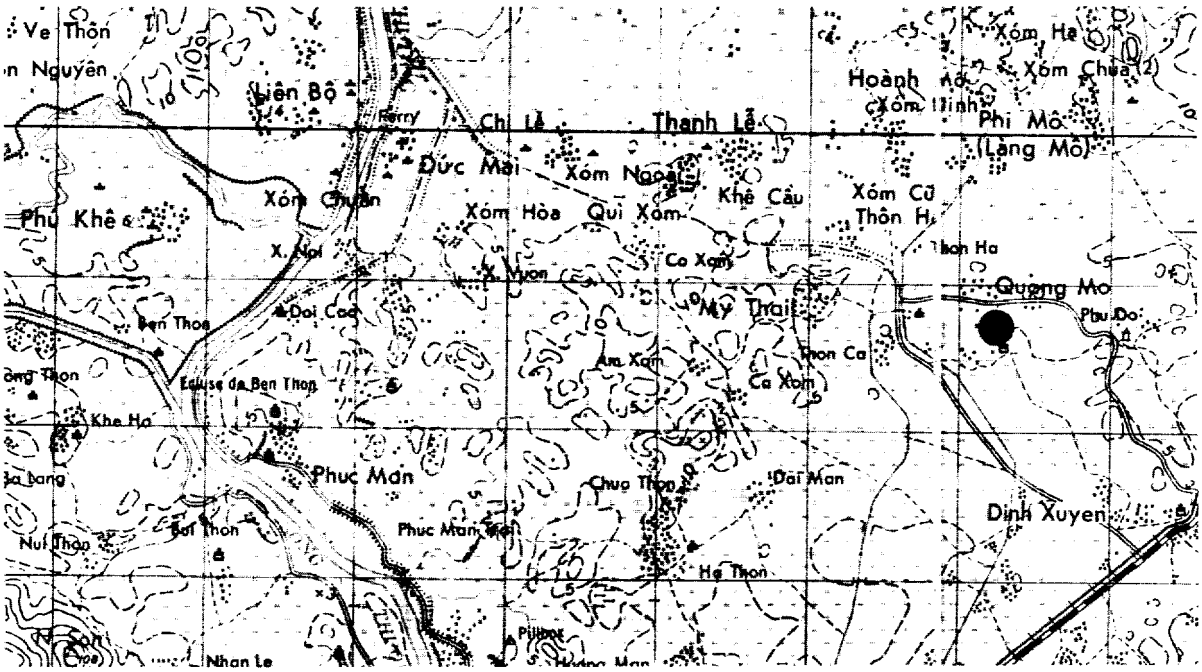
LOCATION: IMMEDIATELY SOUTH OF QUANG MO AND 3.9 NM NE OF BAC GIANG

DESCRIPTION: FACILITY CONSISTS OF A BIG BAR AND A ROCK CAKE/STONE CAKE RADAR. ONE RADAR VAN IS DISCERNIBLE.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6251-IV, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



CATEGORY B

Air Search

Most North Vietnamese air search radar sites consist of 2 vehicle revetments and a hut or shelter. When the site is occupied, a radar (usually FLAT FACE or KNIFE REST) will be in one revetment and a generator will be in the other revetment.

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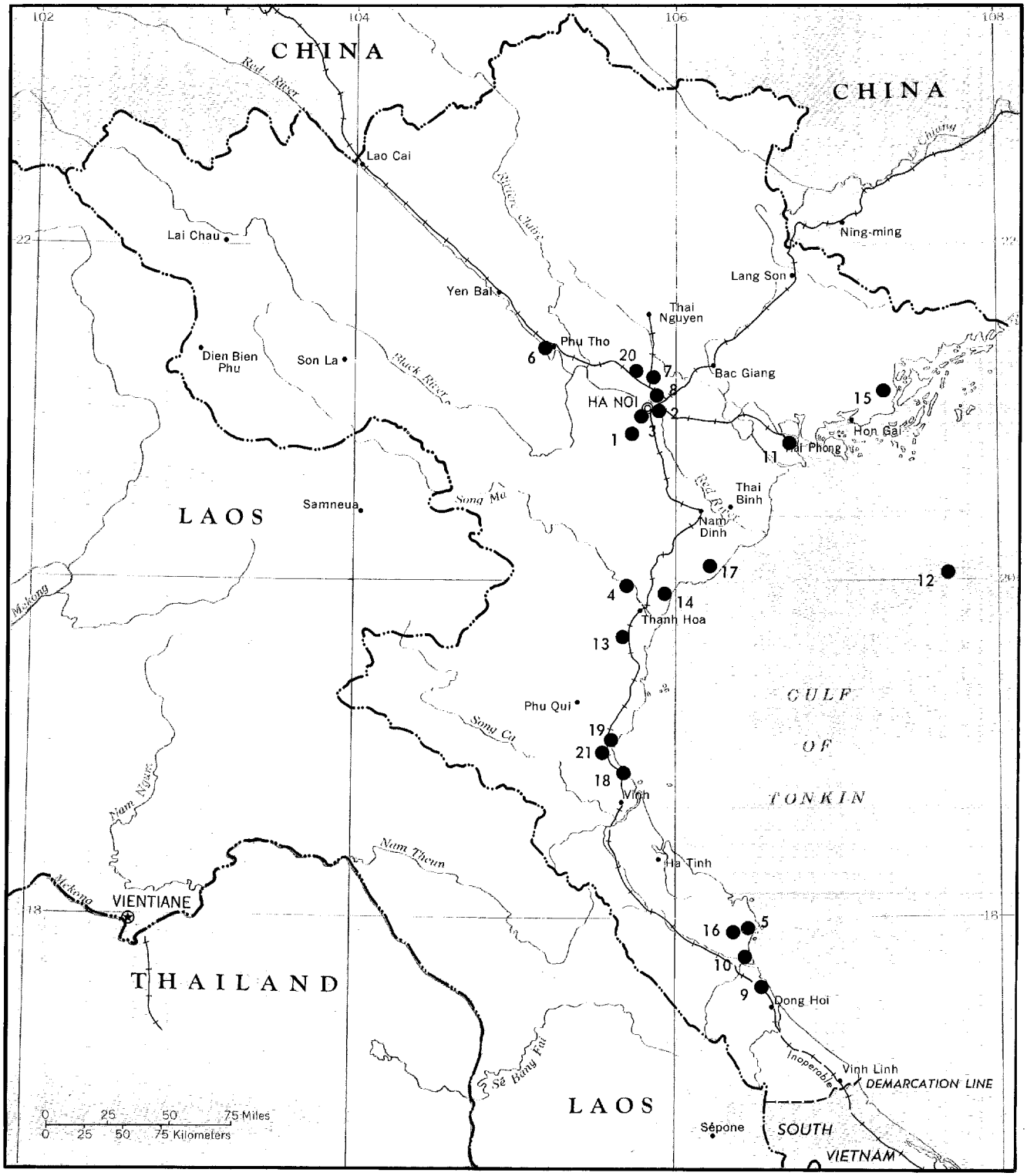
CATEGORY B



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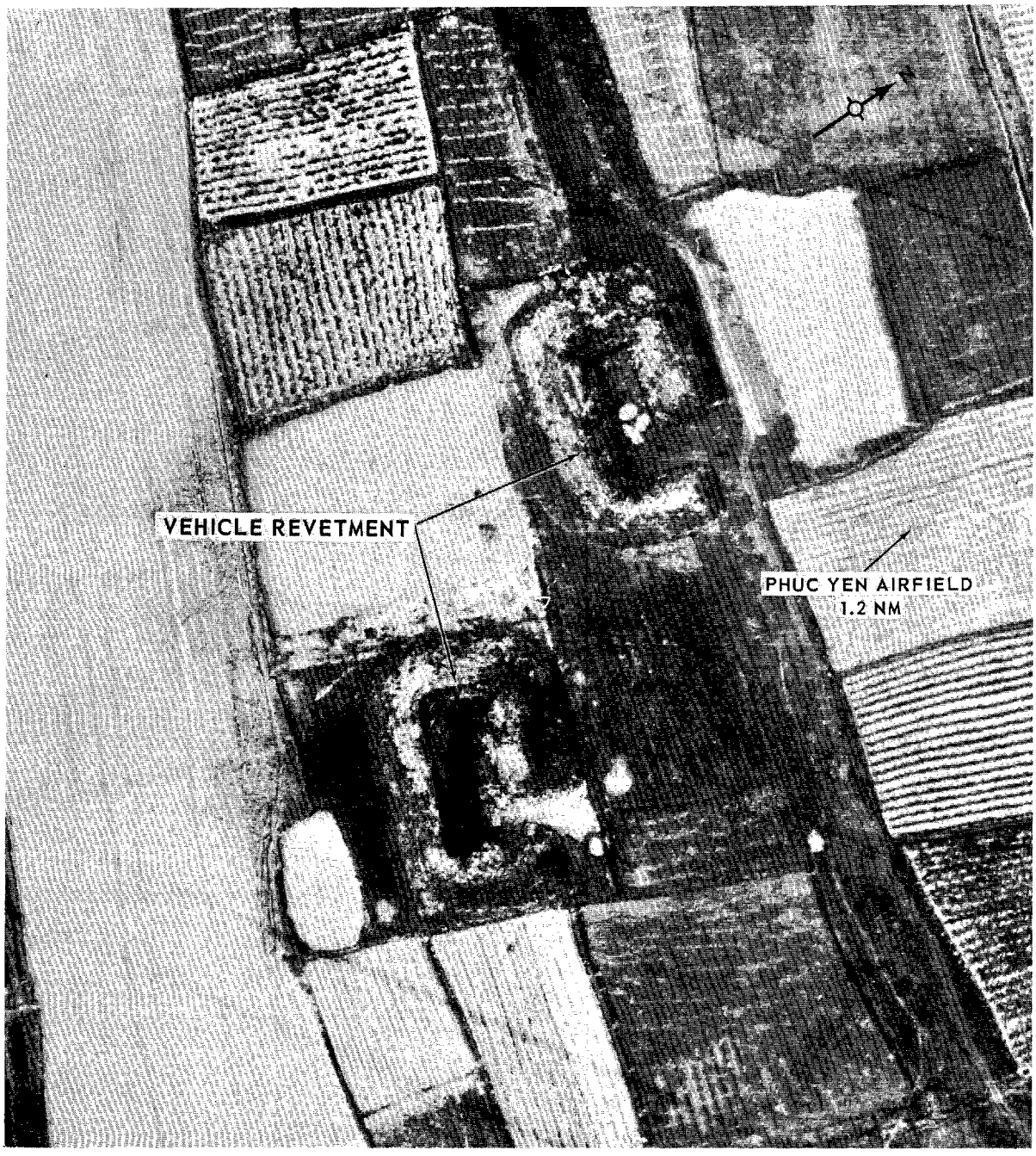
[redacted]

PHUC YEN SE NOI BAI

WJ851447
UTM COORDINATES

21-12N 105-49E
GEOGRAPHIC COORDINATES



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25X1C
CONFIDENTIAL
[redacted]

BE NUMBER	WG599042 UTM COORDINATES	19-01N 105-34E GEOGRAPHIC COORDINATES

NAME: XOM PHU THINH

LOCATION: VILLAGE OF XOM PHU THINH

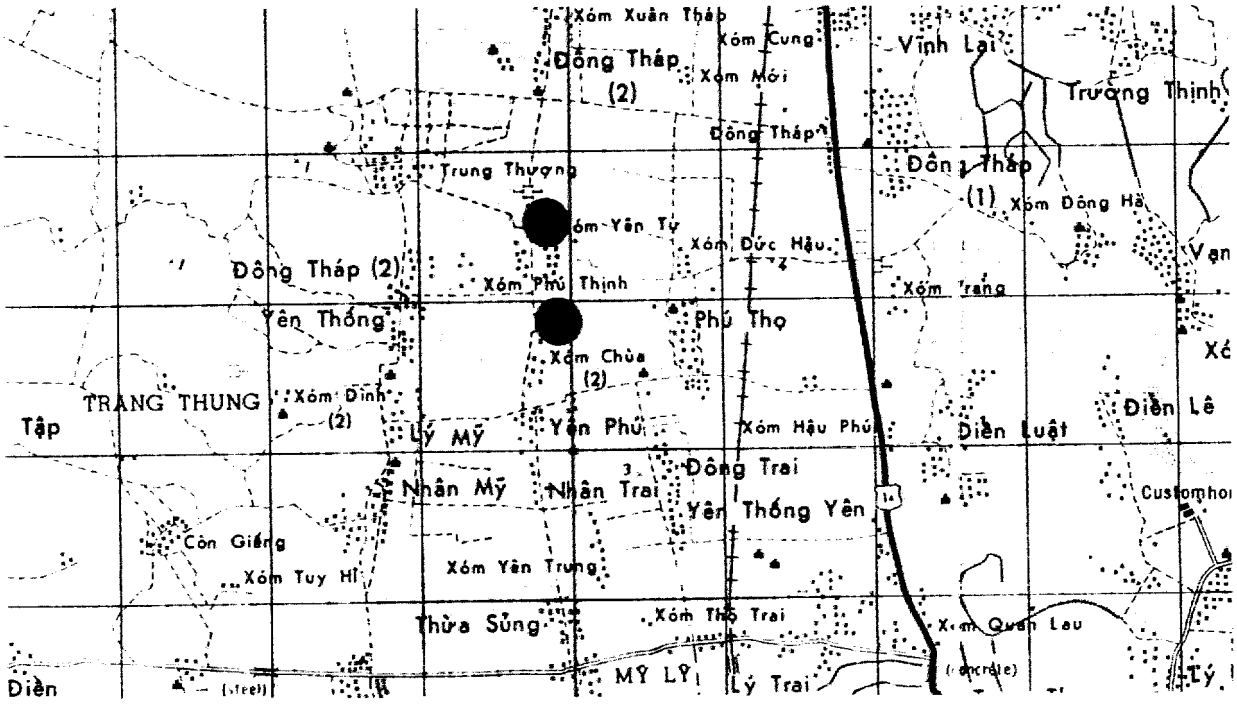
DESCRIPTION: FACILITY CONSISTS OF A MOON FACE RADAR WITH A REVETTED VAN TRUCK AT UTM WG599039 AND A KNIFE REST A RADAR WITH A REVETTED VAN TRUCK AT UTM WG599045.

AN ADDITIONAL REVETTED VAN TRUCK AND AN EMPTY VEHICLE REVETMENT ARE LOCATED NEAR THE KNIFE REST A.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6147-III, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NE 48-3



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[redacted]

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JUNE 1967

XOM PHU THINH

WG599042
UTM COORDINATES

19-01N 105-34E
GEOGRAPHIC COORDINATES

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9	3	68	CRS/OLB		1	41							
9	16	68	CRS/OLB		1	40							
12	6	68	NPIC		1	39							
3	13	69	CCS/A2		1	38							
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1	27	70	Dest 12		13	12							

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TITLE

NPIC/R-32/67 GROUP #2 July 1967

C/NOFORN EXCEPT [redacted] 505/066 X

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TITLE

NRIC/R 32/67 GROUP #2 July 1967

C/NOFORN EXCEPT

[redacted]

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NOTICE

This is the second in a series of updated and supplementary items to be inserted in NPIC/R-32/67, *Southeast Asia Activity Report, Selected Radar Sites, North Vietnam.* Items listed as negated should be deleted from this report.

Updated Items

Page	
B-28	My Duc Radar

Supplementary Items

Page	
A-14	Nui Vien Nam AW/GCI Facility
B-44	Quang Khe Radar
C-2	Long Chau Radar

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[redacted]

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CATEGORY A

Air Warning/Ground Controlled Intercept

The North Vietnamese employ a single TOKEN-type radar (usually BAR LOCK or BIG BAR) and a single heightfinder (normally SIDE NET or ROCK CAKE/ STONE CAKE) for air warning/ground controlled intercept (AW/GCI). This is not in accordance with the Soviet practice of providing several similar back-up radars at AW/GCI sites.

The North Vietnamese usually attempt to conceal their GCI sites to protect them from US air strikes; however, well defined sites, such as Thuy Ha (page A-22), have also been constructed.

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CATEGORY A

CHINA
CHINA
Red River
Li Chiang
Rivière Claire
Lao Cai
Lai Chau
Ning-ming
Lang Son
Yen Bai
Thai Nguyen
Phu Tho
Dien Bien Phu
Son La
Black River
Bac Giang
HA NOI
Hon Gai
Hai Phong
LAOS
Samneua
Song Ma
Thai Binh
Nam Dinh
Red River
Mekong
Thanh Hoa
GULF OF TONKIN
Phu Qui
Song Ca
Nam Ngum
Vinh
Nam Theun
Ha Tinh
Mekong
VIENTIANE
THAILAND
Dong Hoi
Inoperable
Vinh Linh
DEMARCATION LINE
Sé Bang Fai
LAOS
Sépone
SOUTH VIETNAM
0 25 50 75 Miles
0 25 50 75 Kilometers
102
104
106
108
22
20
18

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BE NUMBER	WJ466170 UTM COORDINATES	20-57N 1-5-26E GEOGRAPHIC COORDINATES

NAME: NUI VIEN NAM AW/GCI SITE

LOCATION: SUMMIT OF NUI VIEN NAM (MOUNTAIN), 5.5 NM SW OF HOA LAC AIRFIELD

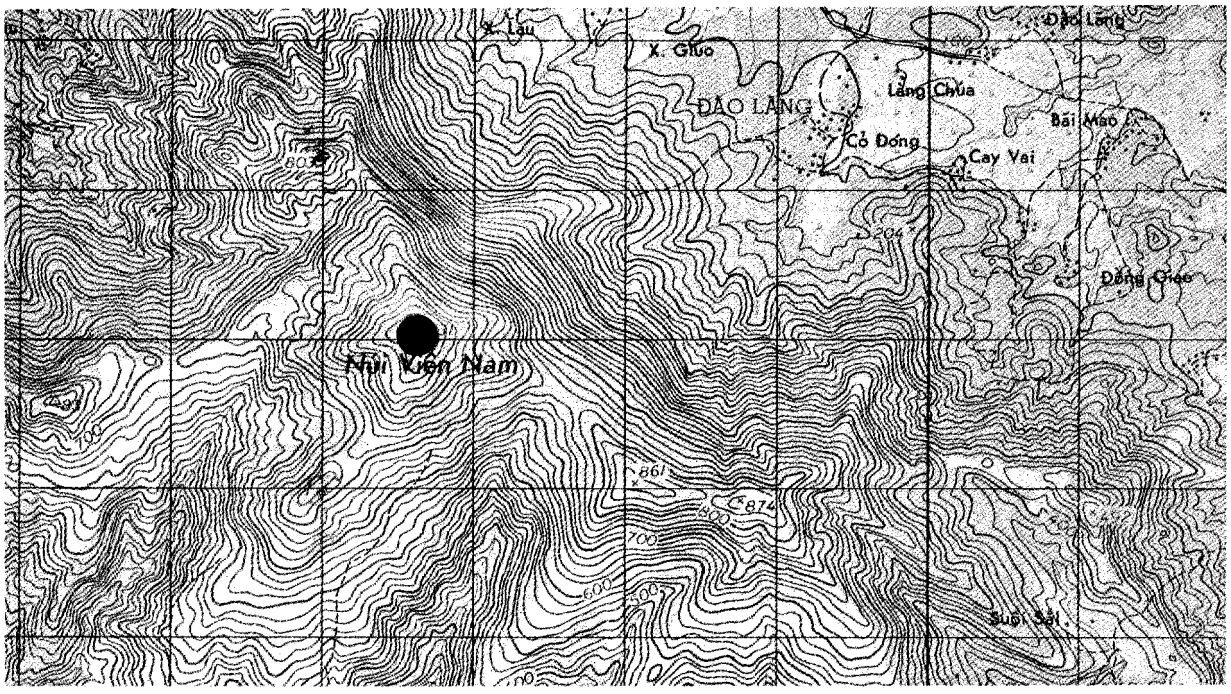
DESCRIPTION: FACILITY CONSISTS OF A CAMOUFLAGED TOKEN-TYPE RADAR, 2 REVETTED VAN TRAILERS, AND A REVETTED, CAMOUFLAGED, UNIDENTIFIED VEHICLE.

THIS SITE IS INACCESSIBLE BY ROAD; HOWEVER, IT IS ADJACENT TO A HELICOPTER LANDING AREA. A GRADED ROAD EXTENDS FROM THE SITE TO THE LANDING AREA.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6050-I, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-15



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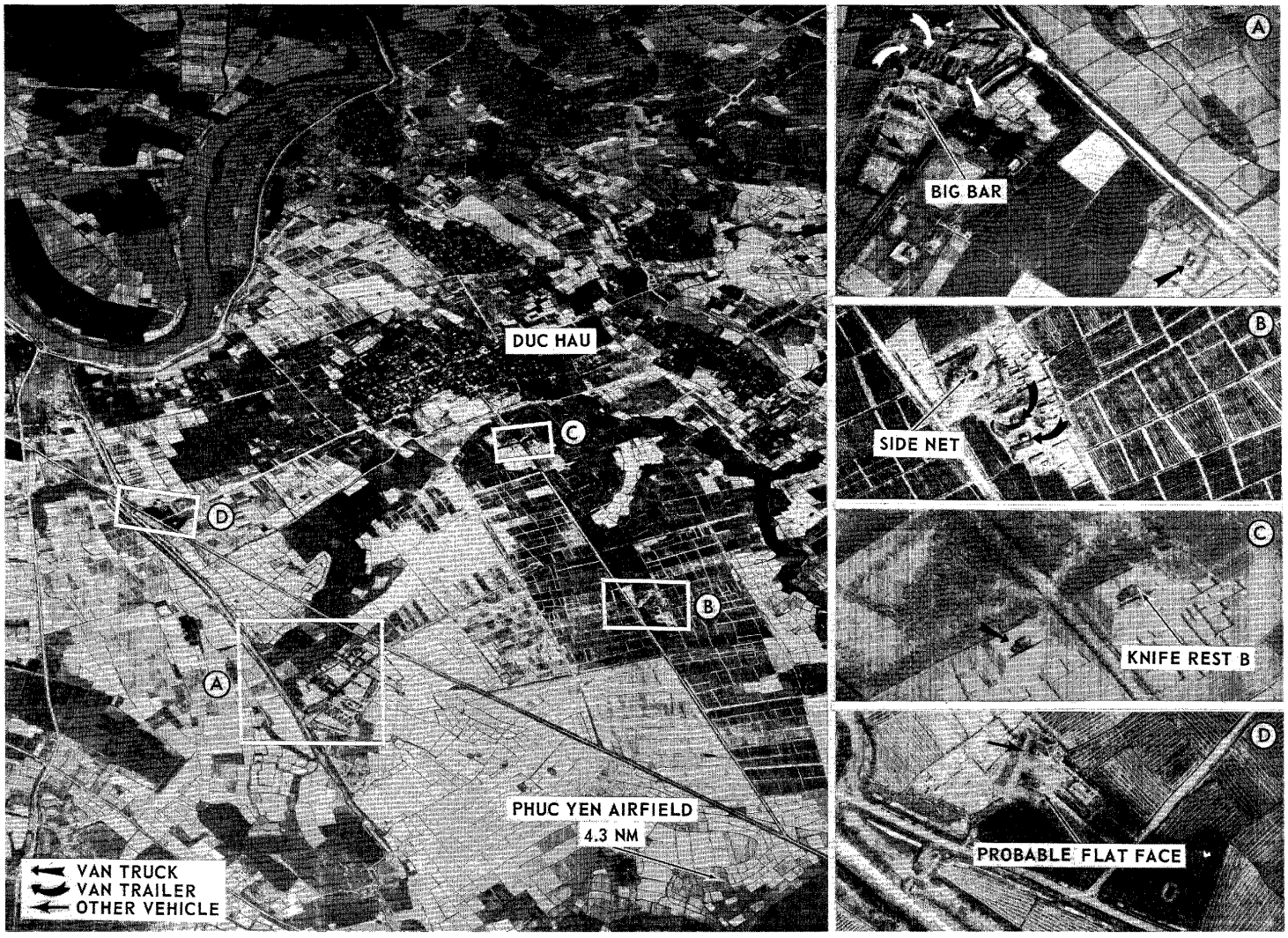
WJ918484
UTM COORDINATES

21-14N 105-53E
GEOGRAPHIC COORDINATES



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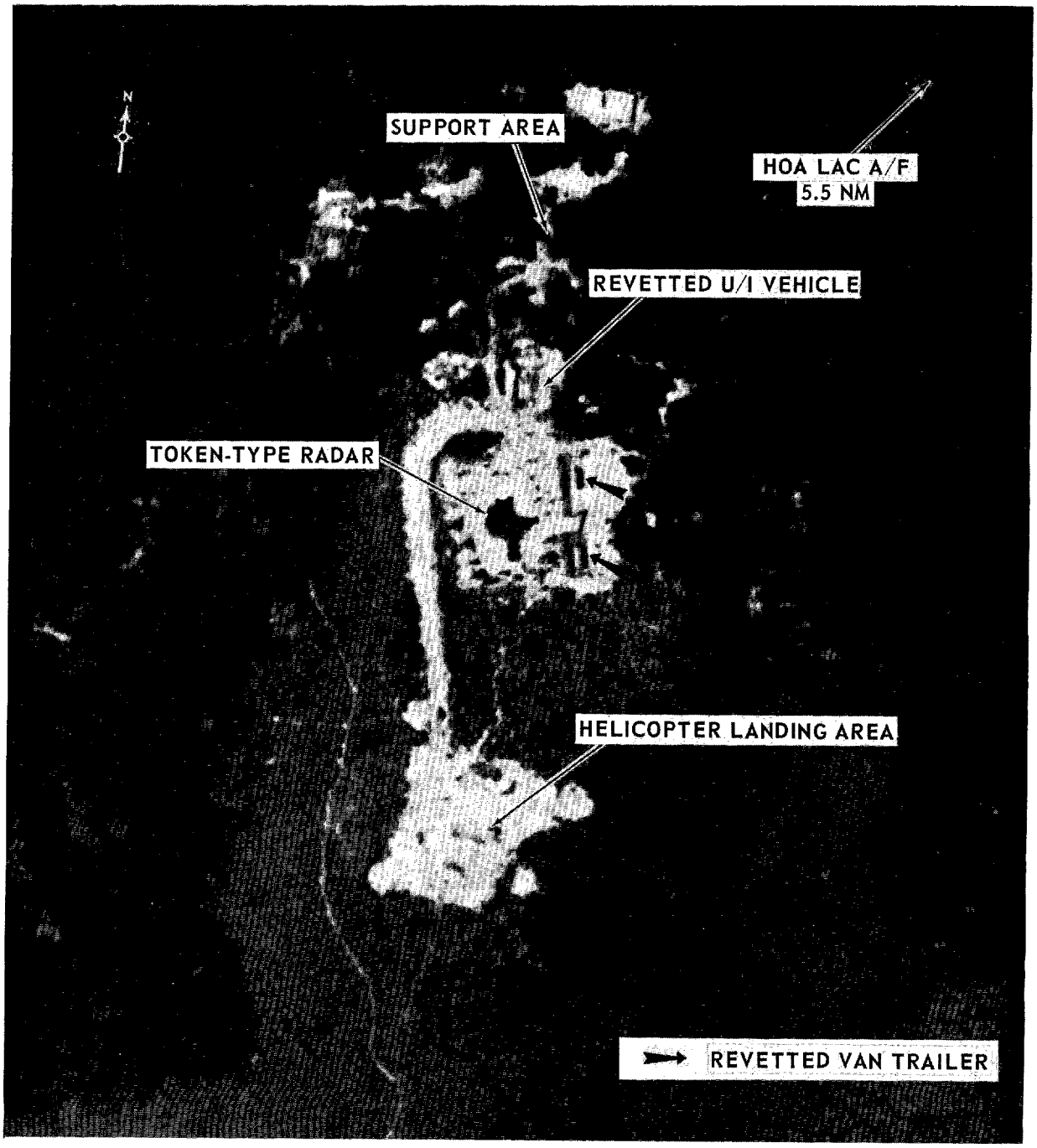
NUI VIEN NAM AW/GCI SITE

WJ466170
UTM COORDINATES

20-57N 105-26E
GEOGRAPHIC COORDINATES



25X1A

[redacted] BE NUMBER	WJ759219 UTM COORDINATES	20-59N 105-43E GEOGRAPHIC COORDINATES

NAME: HA DONG AW/GCI FACILITY

LOCATION: 2.6 NM NW OF HA DONG AND 5.2 NM WEST OF THE HANCI/BAC MAI AIRFIELD

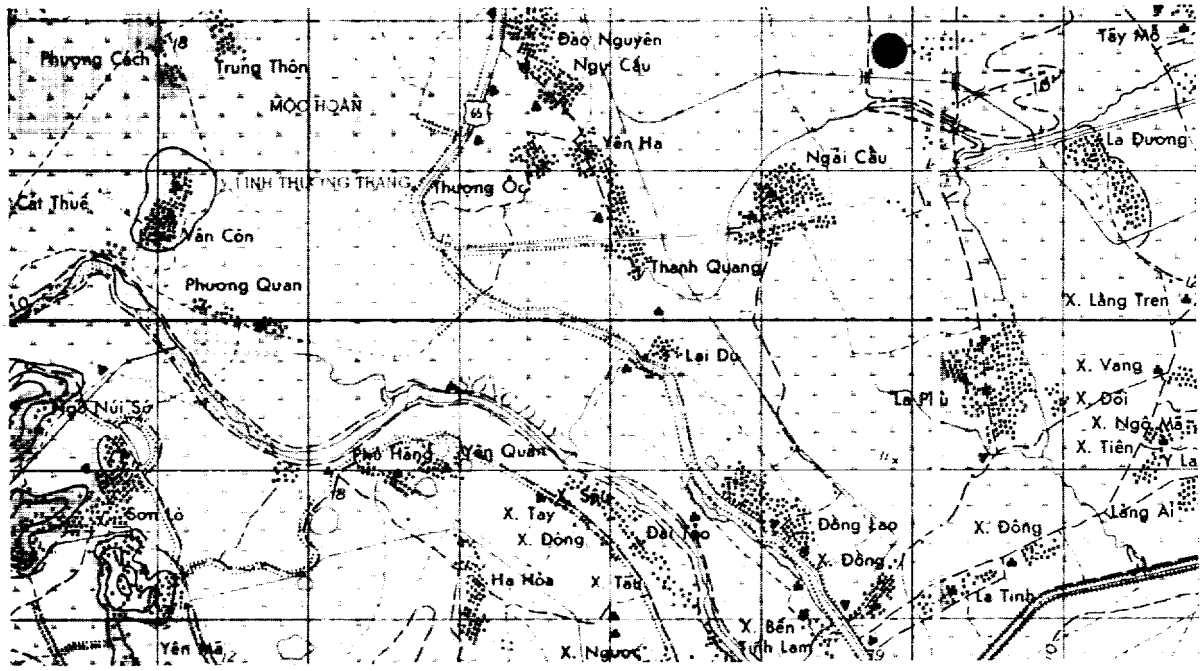
DESCRIPTION: FACILITY CONSISTS OF 2 RADARS ON MOUNDS: A EAR LOCK RADAR WITH 2 REVETTED VAN TRAILERS, 1 REVETTED VAN TRUCK, AND AN ANTENNA TRANSPORT TRAILER AND A SIDE NET RADAR WITH 2 REVETTED VAN TRAILERS.

A REVETTED VAN TRUCK WITH A NEARBY MAST, AN EMPTY REVETMENT, AND SEVERAL SUPPORT BUILDINGS ARE OBSERVED IN THE IMMEDIATE VICINITY.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6150-IV, 1ST ED, 1965 (C)
AMS SERIES 1501, SHEET NF 48-15



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CATEGORY B

Air Search

Most North Vietnamese air search radar sites consist of 2 vehicle revetments and a hut or shelter. When the site is occupied, a radar (usually FLAT FACE or KNIFE REST) will be in one revetment and a generator will be in the other revetment.

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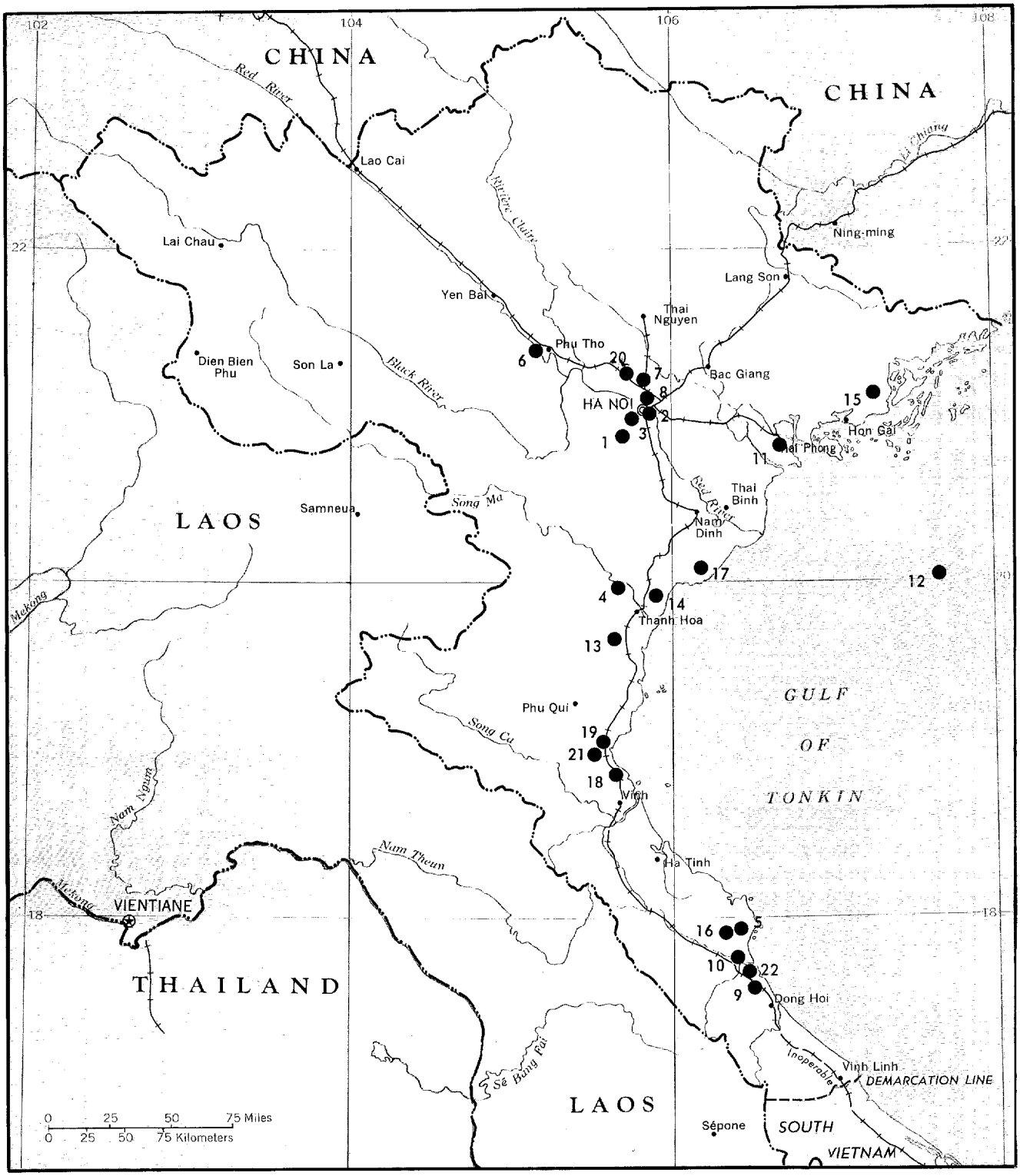
Approved For [redacted] A005900010018-5

CATEGORY B



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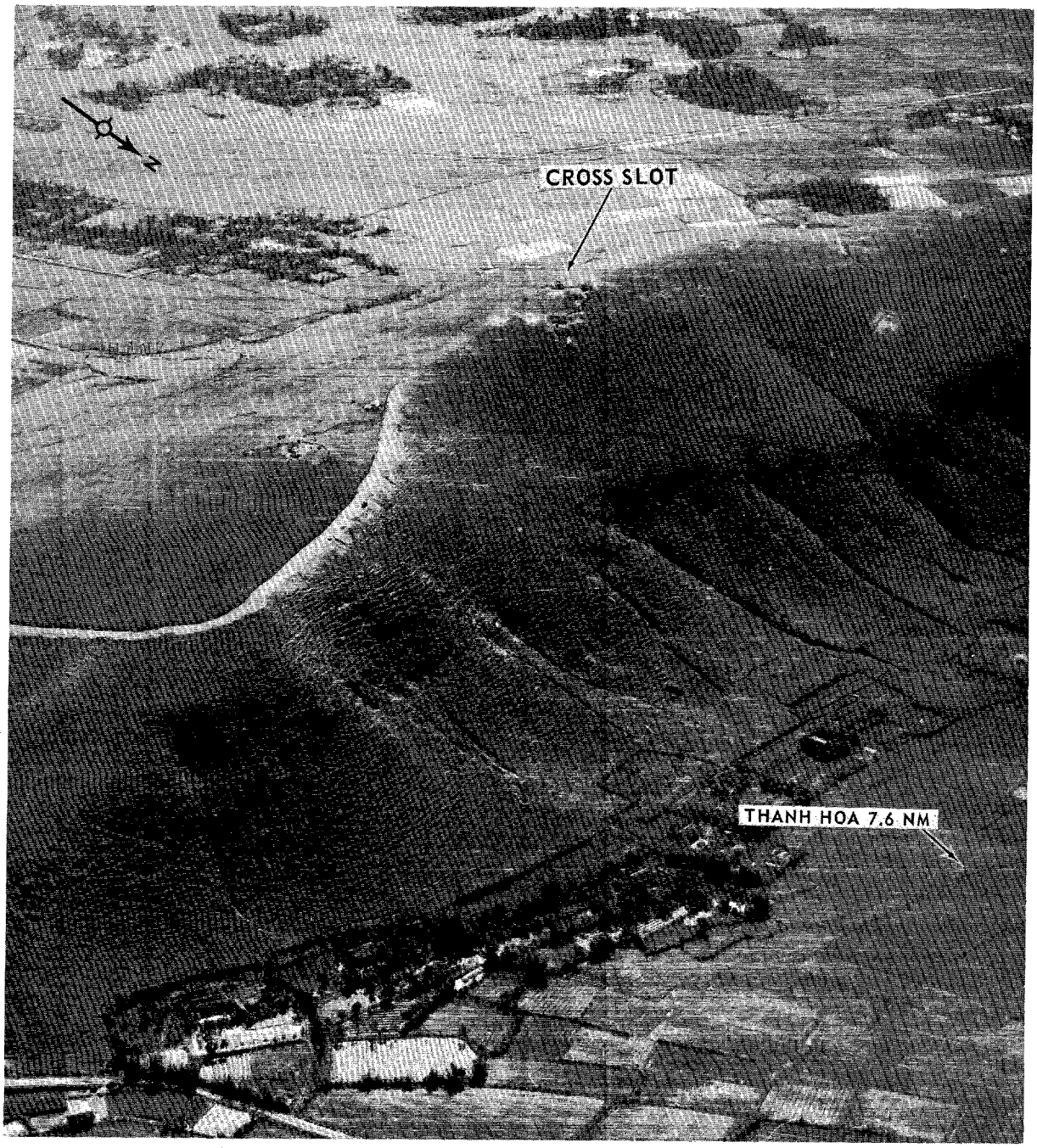
VAN NHAM

WG799762
UTM COORDINATES

19-40N 105-45E
GEOGRAPHIC COORDINATES



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25X1A

[redacted] BE NUMBER | WG993981 UTM COORDINATES | 19-12N 105-56E GEOGRAPHIC COORDINATES

NAME: MY DUC RADAR

LOCATION: 3.2 NM NE OF MY DUC AND 10.6 NM NE OF THANH HOA

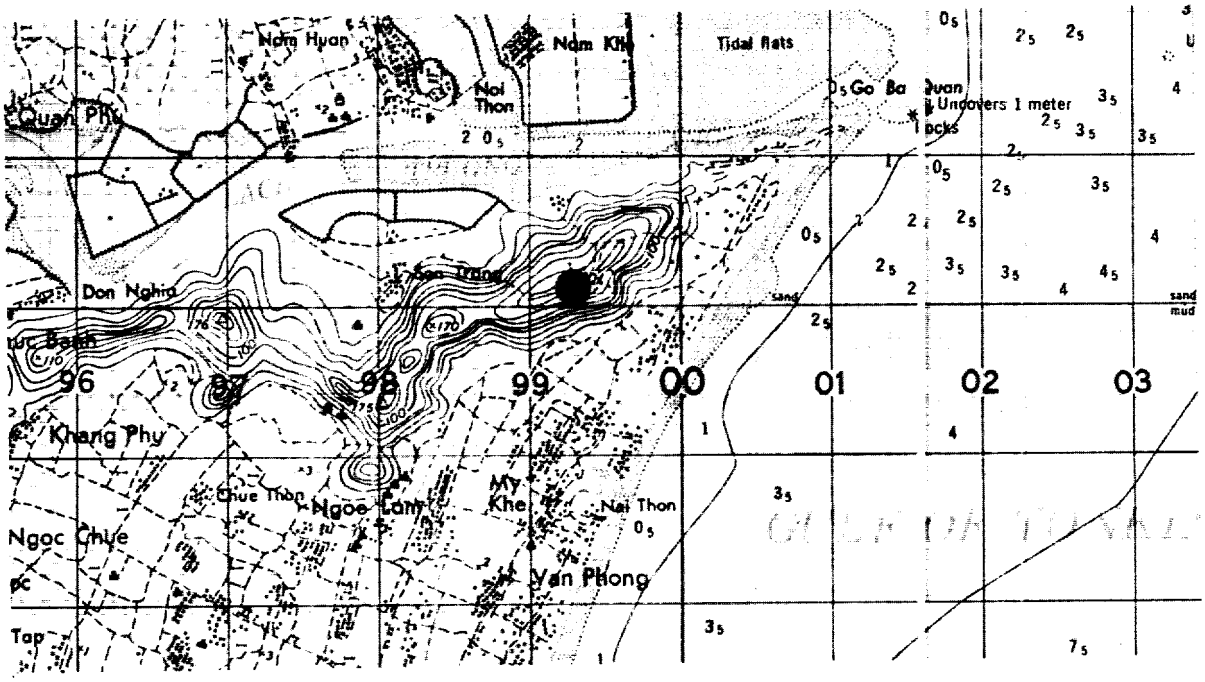
DESCRIPTION: FACILITY CONSISTS OF A REVETTED BUILDING AND AN ADJACENT FORMER CROSS SLOT SITE.

THREE REVETTED BUILDINGS AND 2 OTHER BUILDINGS ARE ADJACENT TO THE SITE. AN ADDITIONAL BUILDING PREVIOUSLY AT THIS LOCATION HAS BEEN DESTROYED.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6148-I, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NE 48-3



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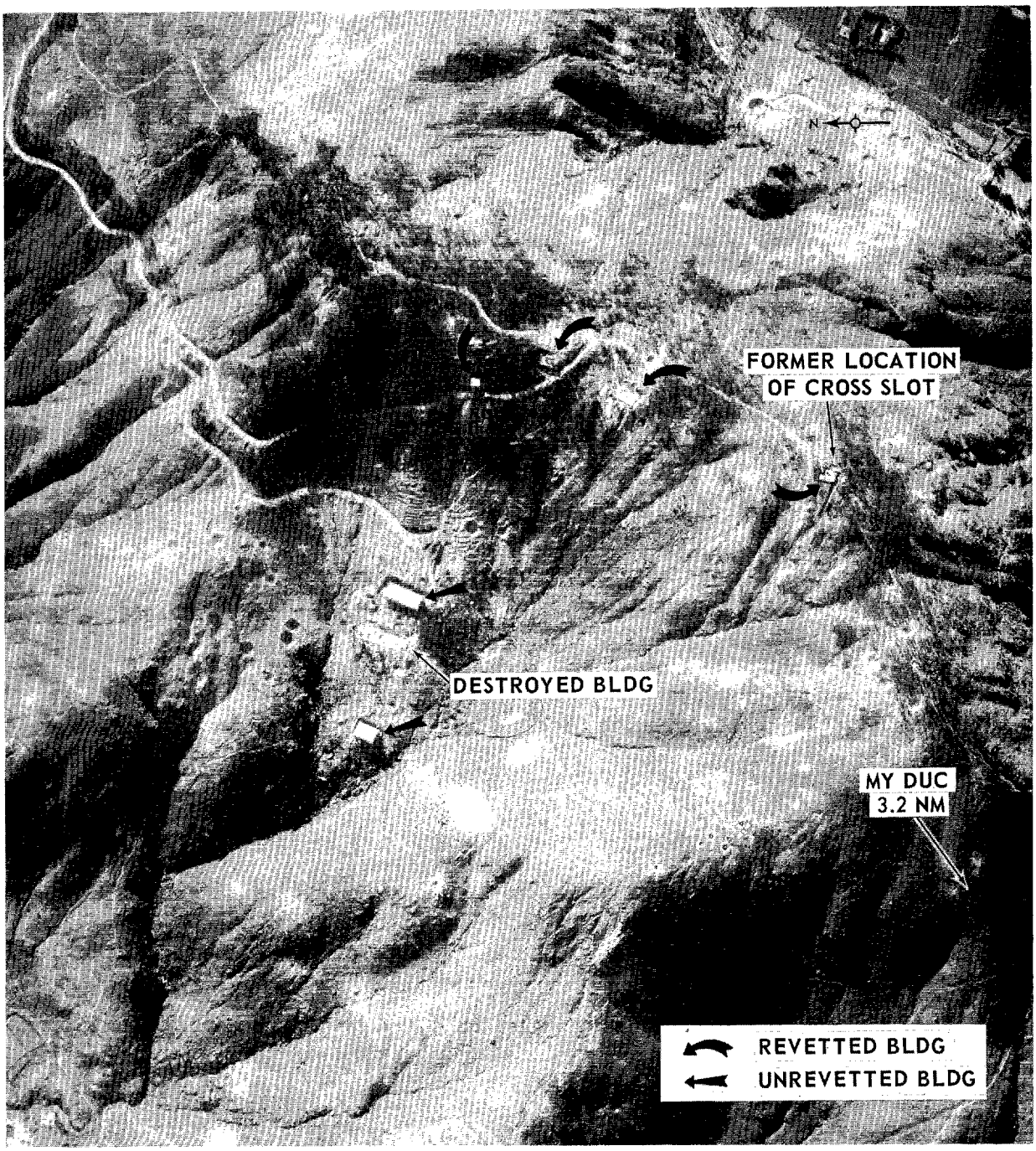
MY DUC RADAR

WG993981
UTM COORDINATES

19-52N 105-56E
GEOGRAPHIC COORDINATES



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BE NUMBER	XJ521601 UTM COORDINATES	21-19N 107-25E GEOGRAPHIC COORDINATES

NAME: TIEN YEN

LOCATION: 1.5 NM EAST OF TIEN YEN AND 56.0 NM NE OF HAI PHONG

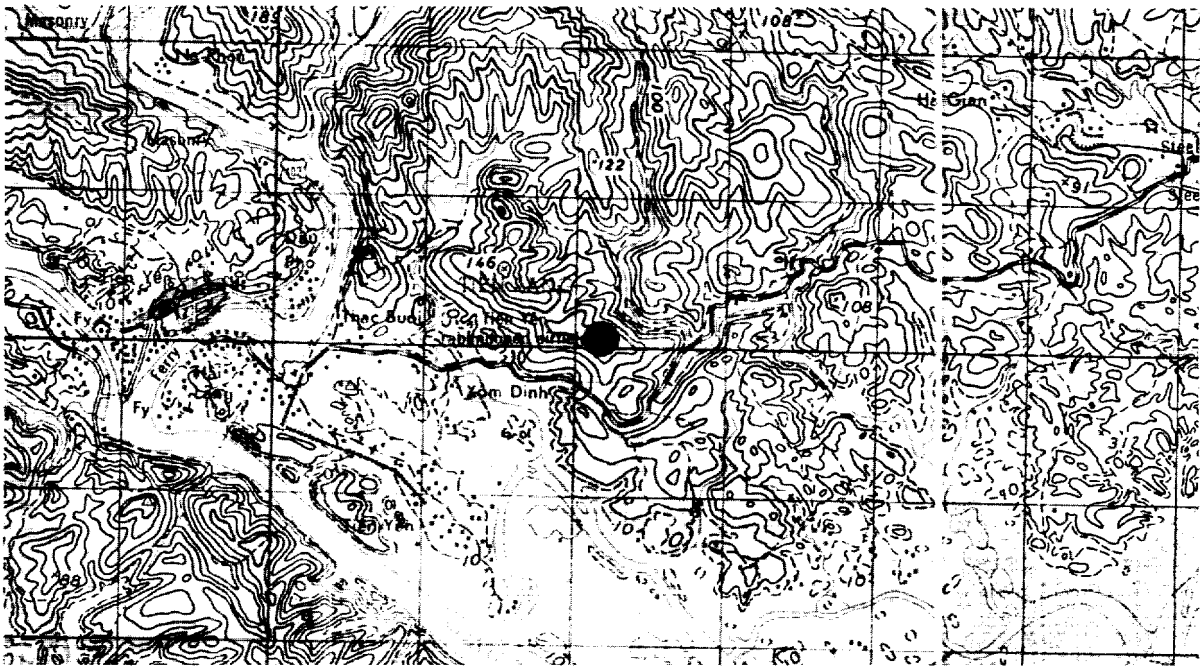
DESCRIPTION: FACILITY CONSISTS OF 1 HEAVILY CAMOUFLAGED PROBABLE KNIFE REST B RADAR.

NO OTHER EQUIPMENT OR FACILITIES ARE DISCERNIBLE THROUGH DENSE TREE CANOPY.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6451-I, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-12


Masonry
Yen
Fy
Fy
Fy

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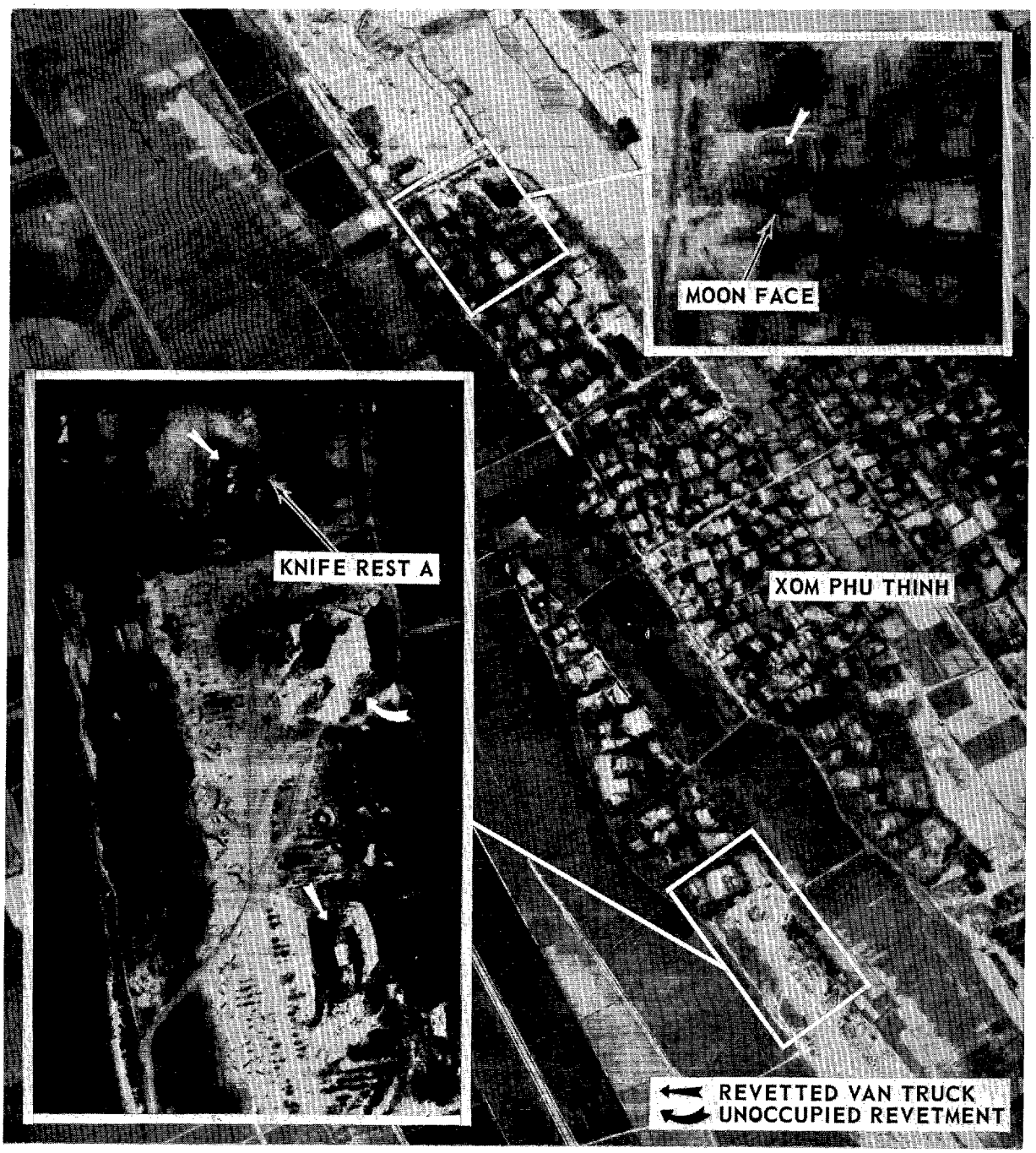
JUNE 1967

XOM PHU THINH

WG599042
UTM COORDINATES

19-01N 105-34E
GEOGRAPHIC COORDINATES



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BE NUMBER	XE596554 UTM COORDINATES	17-40N 106-30E GEOGRAPHIC COORDINATES

NAME: QUANG KHE RADAR

LOCATION: 1.5 NM SE OF QUANG KHE

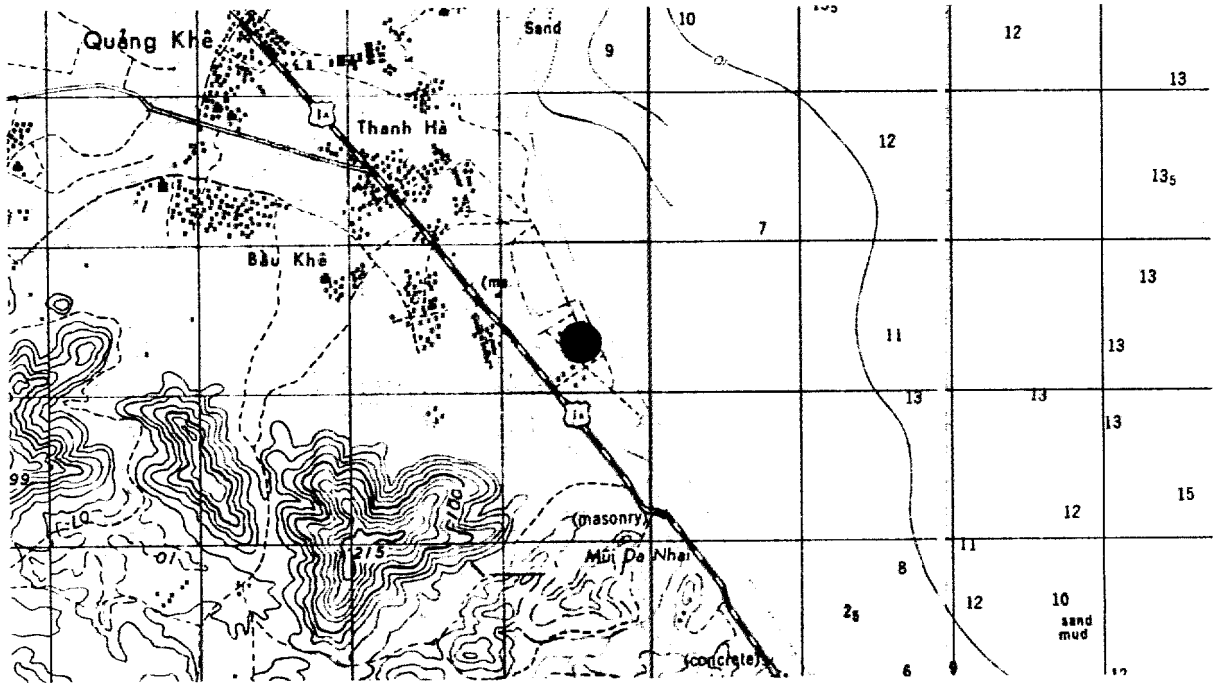
DESCRIPTION: FACILITY CONSISTS OF A KNIFE REST A RADAR MOUNTED ON A ROUND TOWER.

THE KNIFE REST RADAR IS NOT VISIBLE ON RECENT PHOTOGRAPHY AND MAY HAVE BEEN REMOVED.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6344 III, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NE 48-12



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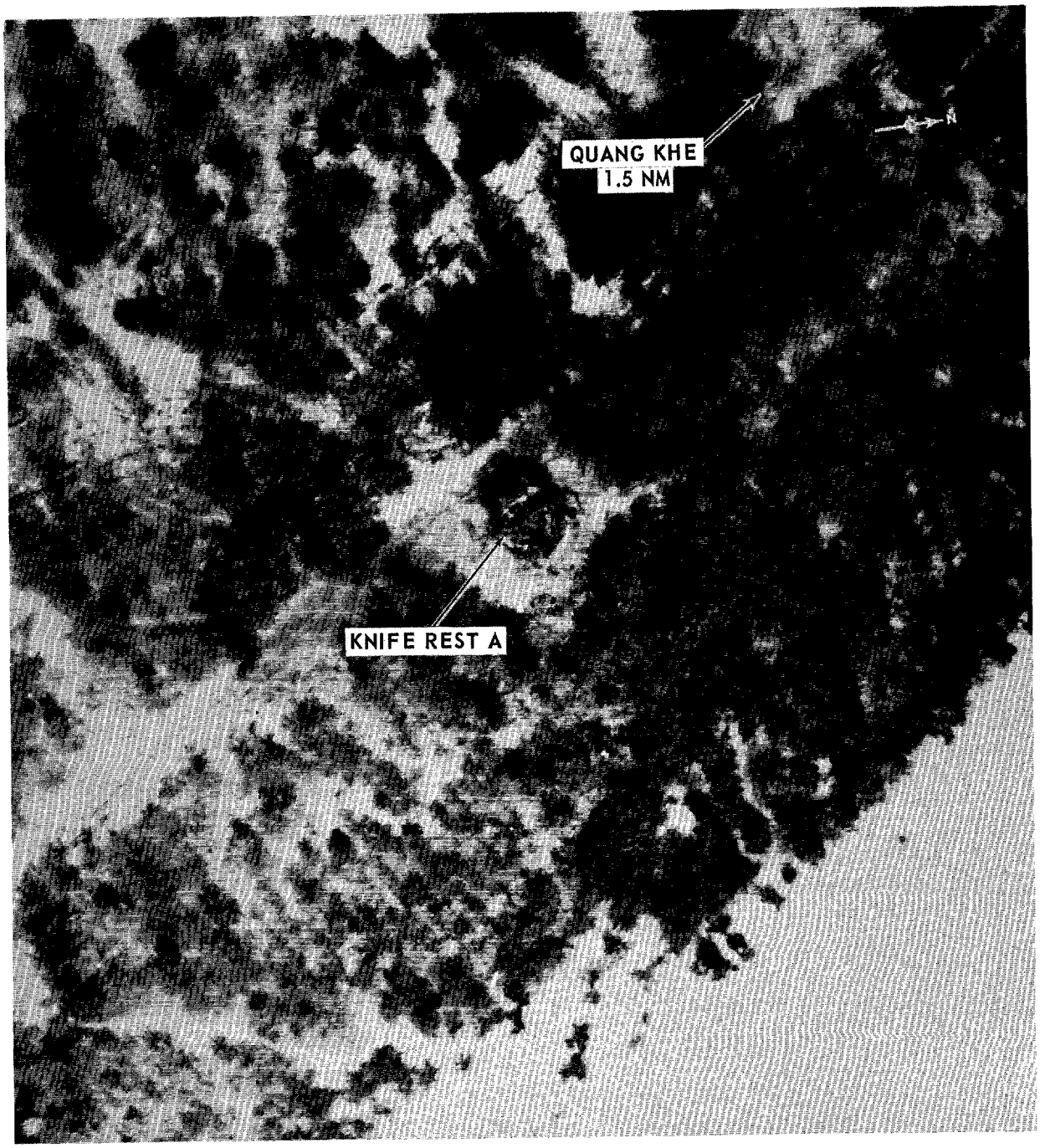
QUANG KHE RADAR

XE596554
UTM COORDINATES

17-40N 106-30E
GEOGRAPHIC COORDINATES



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CATEGORY C

Surface Search

Prior to the beginning of the US air strikes in 1965, the North Vietnamese had deployed CROSS SLOT radars on high ground along the coast and on offshore islands for a combined air search and suface search capability. These sites were subjected to air strikes and are no longer in operation. It is probable that smaller shipboard radars have since been installed along the coast. These have not been identified on photography, probably due to the relatively small size of this equipment and the use of camouflage.

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4 *	25X1A	My Duc	B-28
5 *	[redacted]	Cua Lo	B-36
6		Long Chau	C-2

*These CROSS SLOT radar sites are reported in Category B and have an additional surface search capability.

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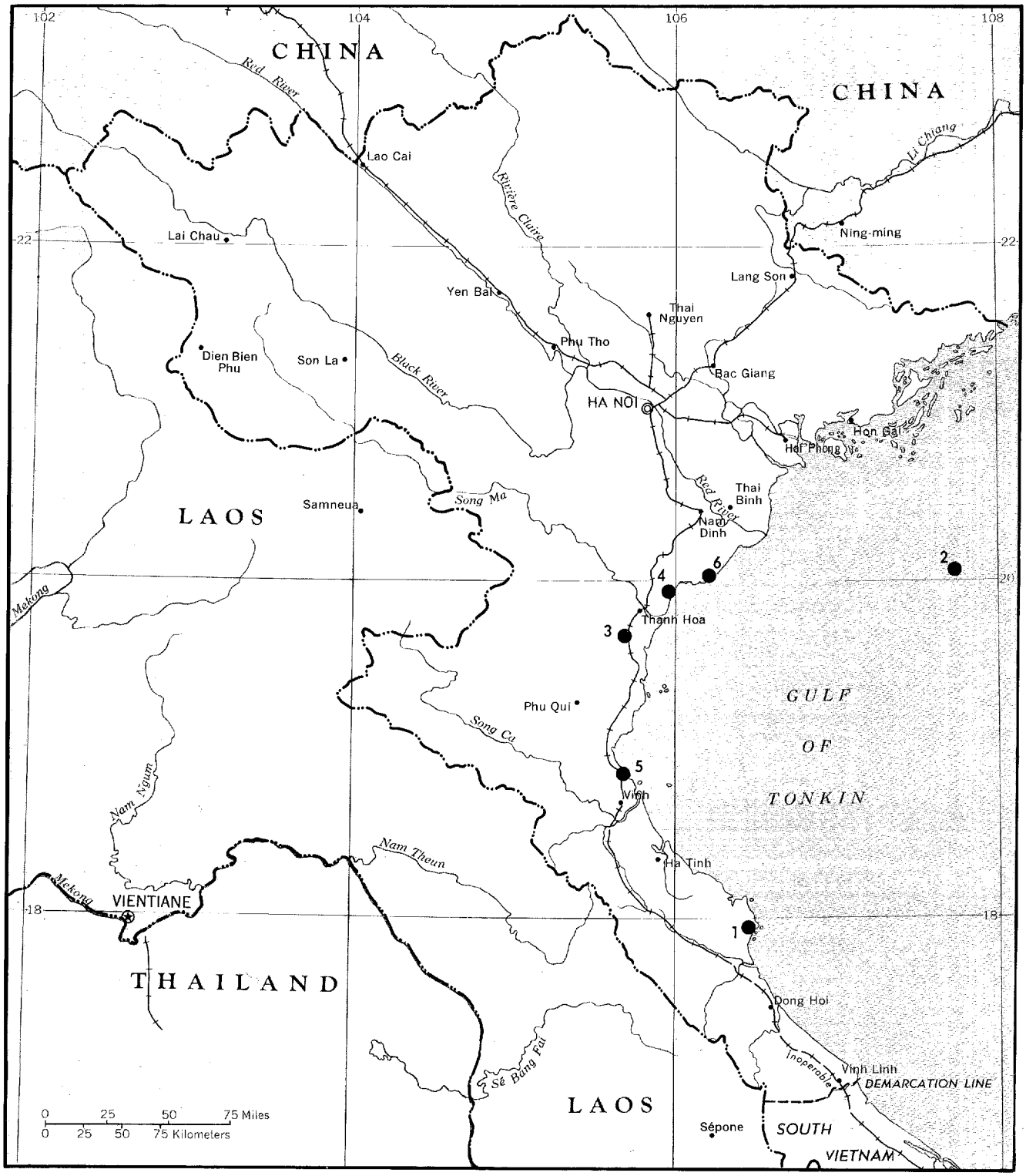
[redacted]

CATEGORY C



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[redacted]

BE NUMBER	XH266131 UTM COORDINATES	20-00N 106-12E GEOGRAPHIC COORDINATES

NAME: LONG CHAU RADAR

LOCATION: 1.5 NM SSW OF LONG CHAU AND 27 NM NE OF THANH HOA

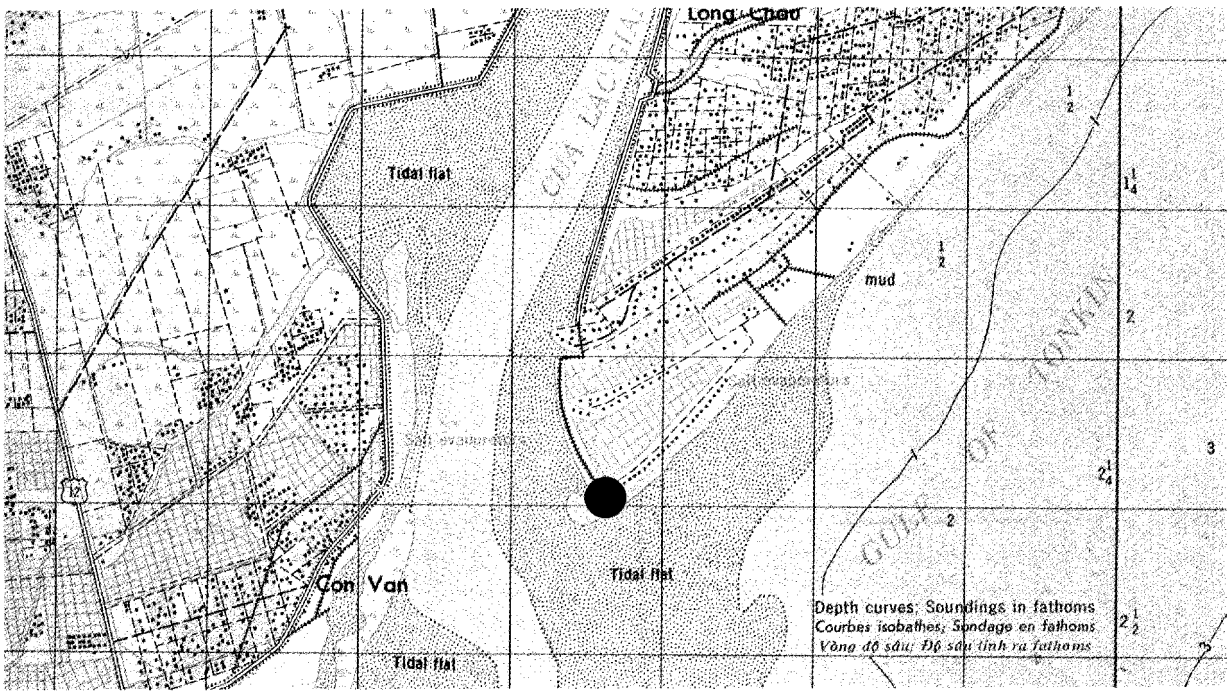
DESCRIPTION: FACILITY CONSISTS OF AN UNIDENTIFIED PROBABLE SURFACE SEARCH RADAR MOUNTED ON A WOODEN TOWER.

AN OCCUPIED COASTAL DEFENSE SITE IS LOCATED ADJACENT TO THE RADAR SITE.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6249-III, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-15



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XH266131
UTM COORDINATES

20-00N 106-12E
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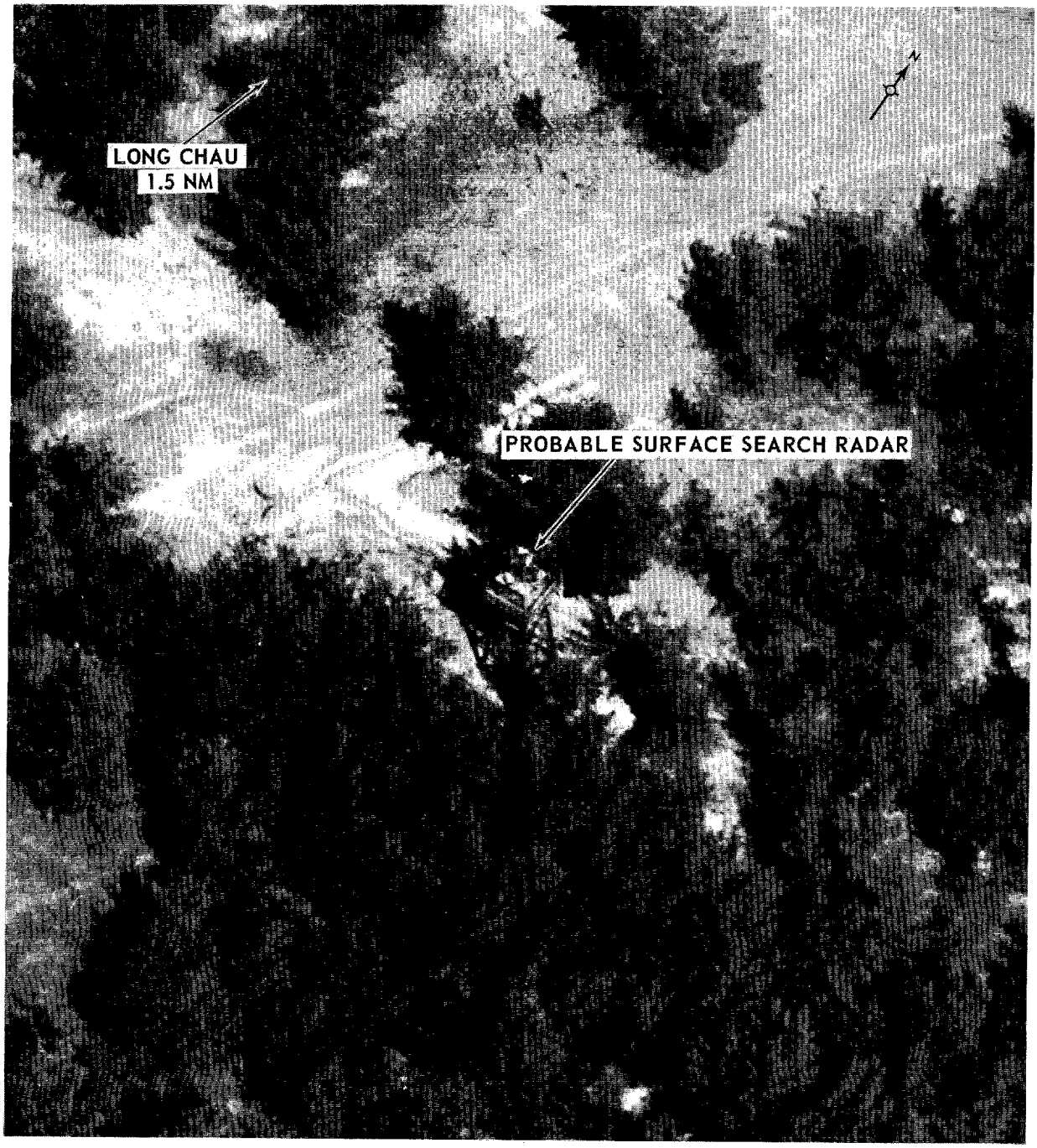

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*This facility is reported in NPIC/R-167/67.

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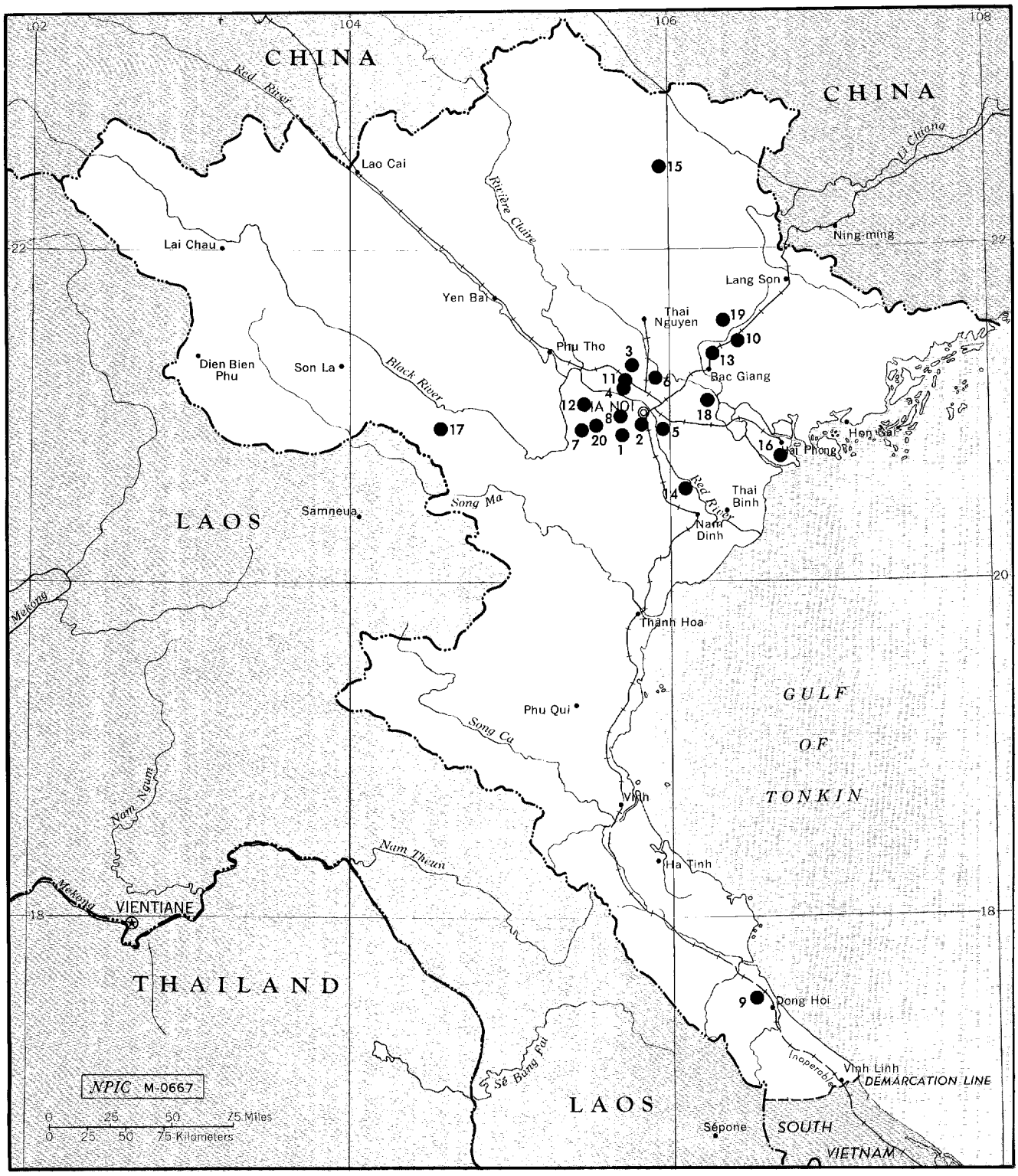

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BE NUMBER	WJ630227 UTM COORDINATES	21-00N 105-36E GEOGRAPHIC COORDINATES

NAME: HOA LAC AW/GCI FACILITY

LOCATION: 6.0 NM ESE OF HOA LAC AIRFIELD

DESCRIPTION: FACILITY CONSISTS OF A CAMOUFLAGED BIG BAR RADAR AND AT LEAST 2 PROBABLE VAN TRAILERS ON A WOODED KNOLL.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-III, 1ST ED, 1965 (U)
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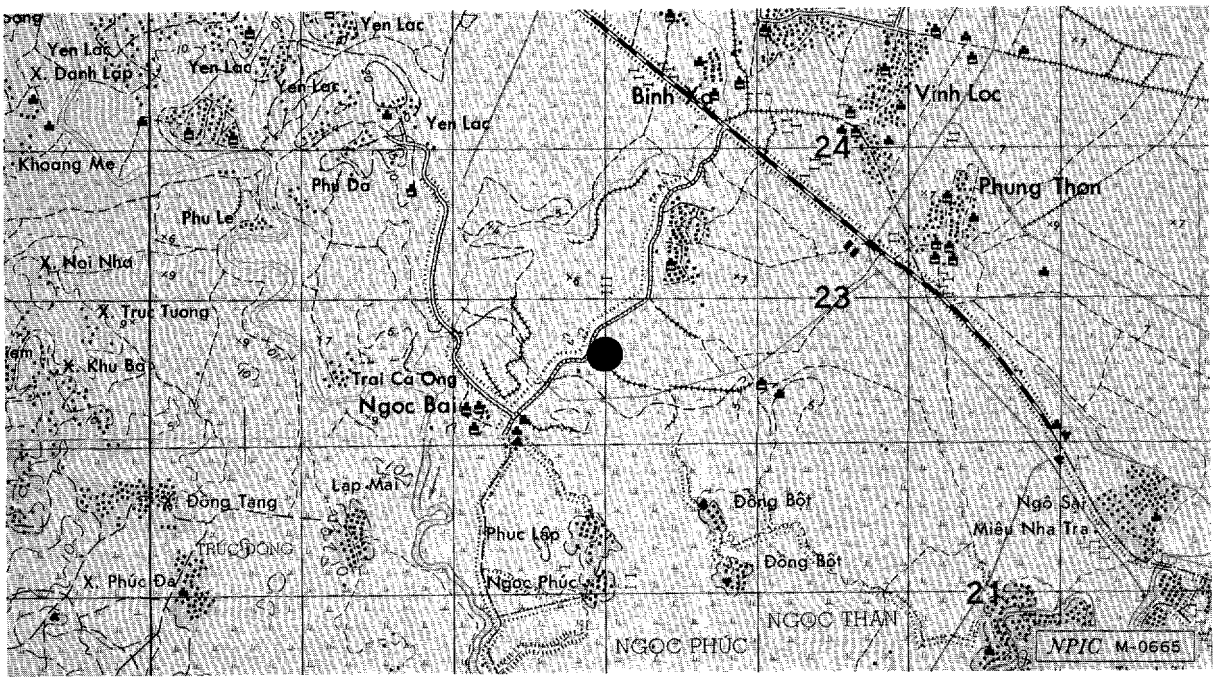

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HOA LAC AW/GCI FACILITY

WJ630227
UTM COORDINATES

21-00N 105-36E
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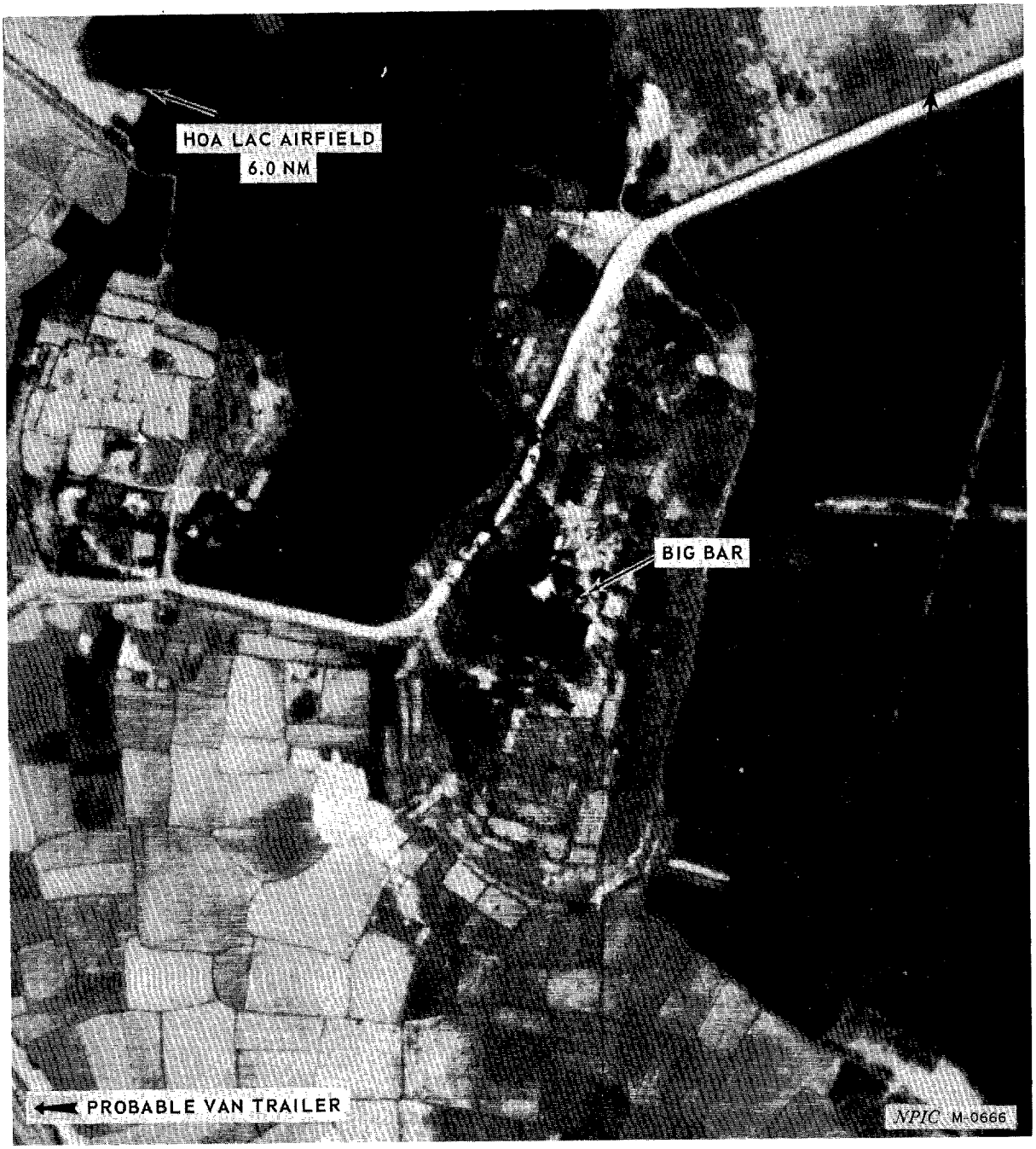

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*This facility is reported in NPIC/R-167/67.

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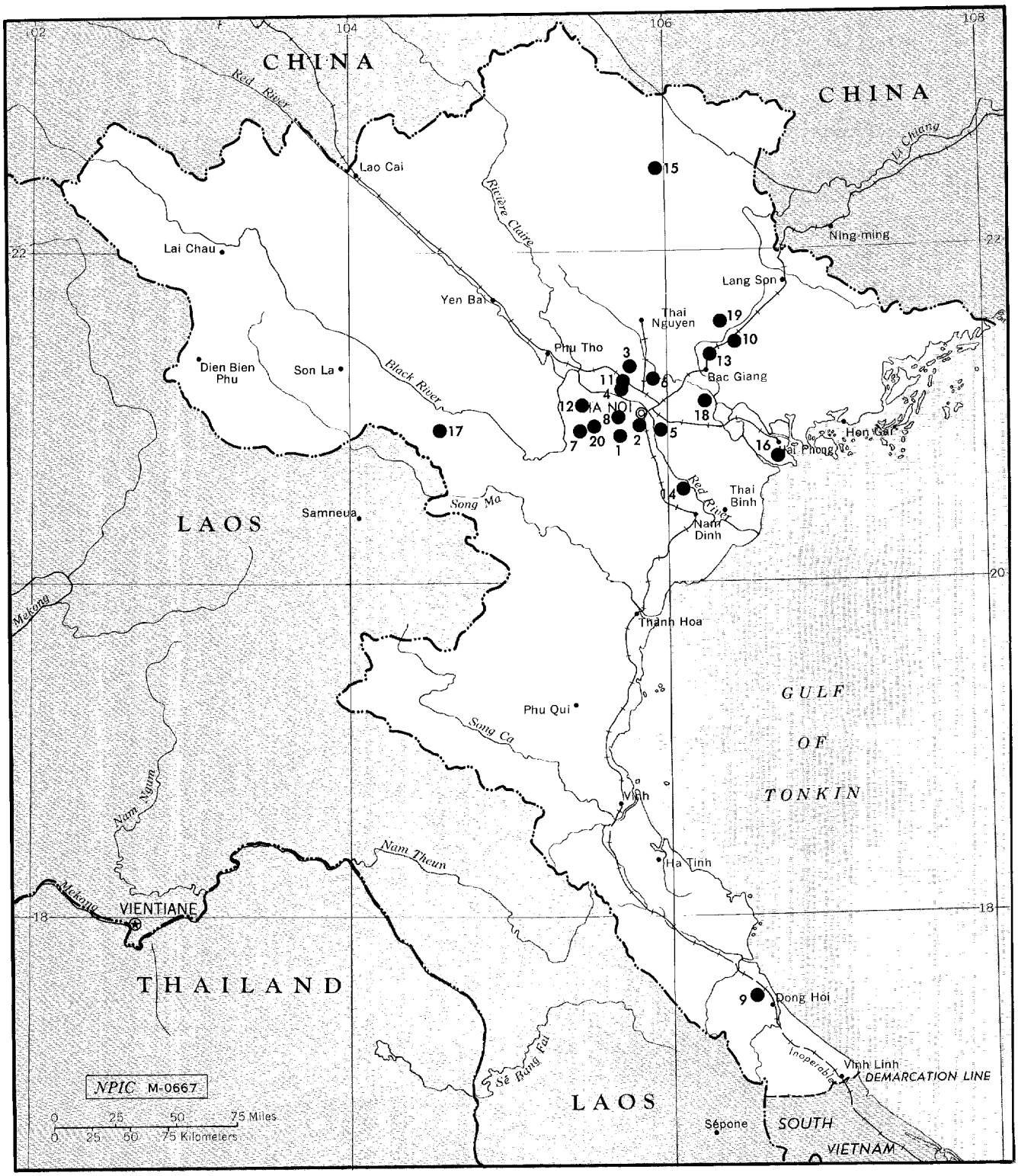

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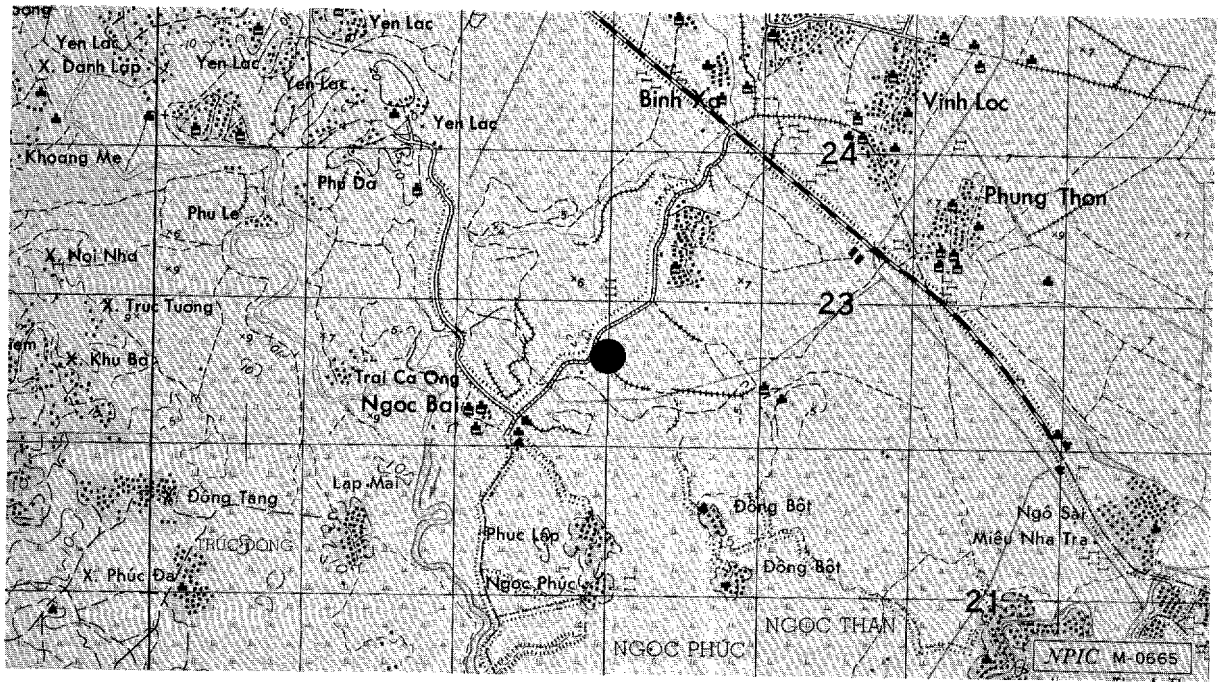

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HOA LAC AW/GCI FACILITY

WJ630227
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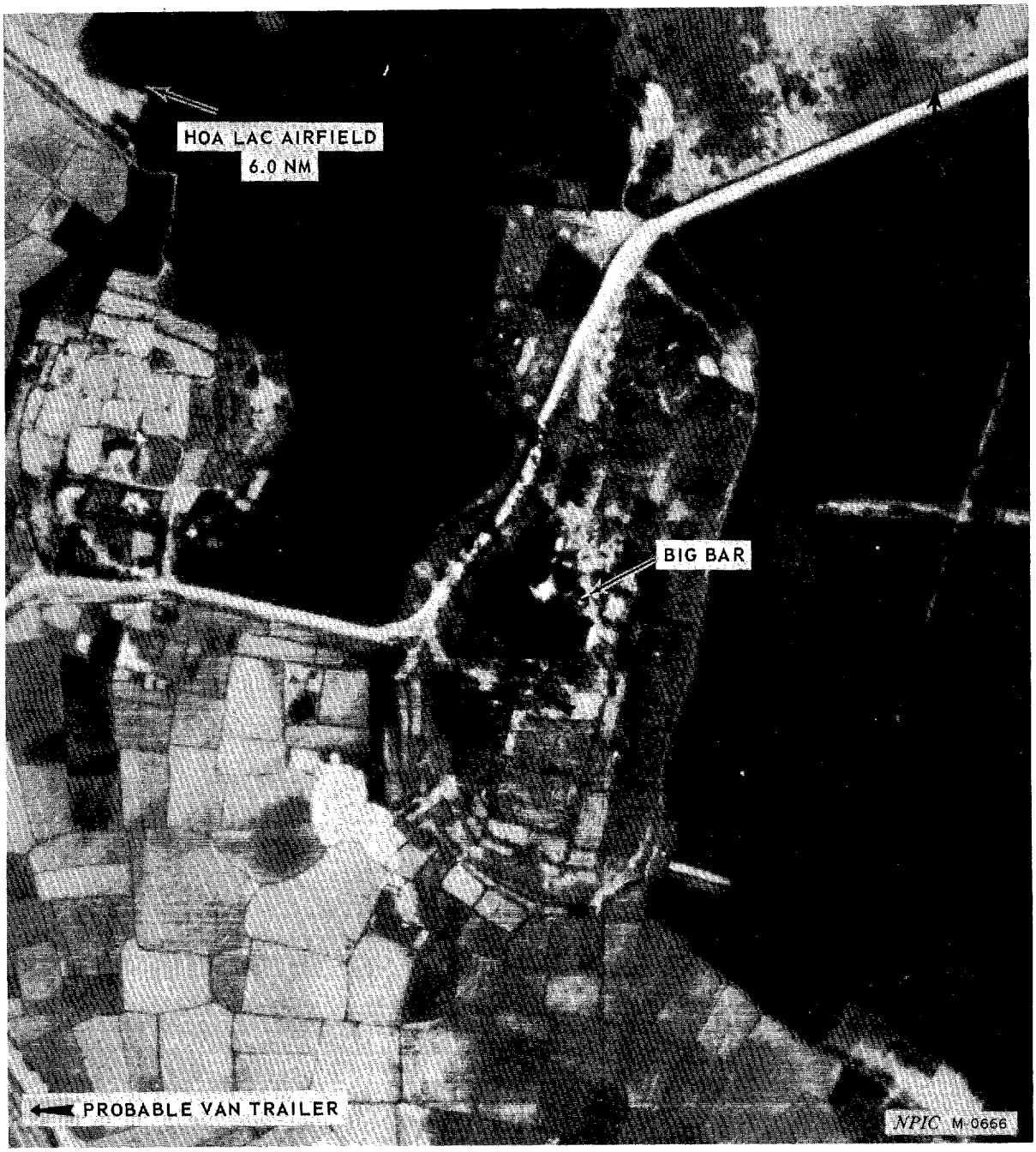

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25X1C The overall classification of this report has been changed to SECRET/No Foreign Dissem [redacted] 25X1C and a new cover is included with this supplement. However, individual pages which can be classified CONFIDENTIAL/No Foreign Dissem [redacted] will be so identified.

This report now supersedes NPIC/R-167/67, which has been discontinued.

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SOUTHEAST ASIA ACTIVITY REPORT

SELECTED RADAR SITES

NORTH VIETNAM

NPIC/R-32/67
JANUARY 1968

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WARNING

This document contains information affecting the national defense of the United States, within the meaning of Title 18, sections 793 and 794, of the U.S. Code, as amended. Its transmission or revelation of its contents to or receipt by an unauthorized person is prohibited by law.

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Note: (S) denotes pages classified SECRET; all other pages are CONFIDENTIAL.

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INTRODUCTION

This report is an NPIC study designed to present an overall view of the radar facilities in North Vietnam. It is not all-inclusive, since it will contain only those sites which have been observed on aerial photography. Fire control radar for antiaircraft or missiles will not be reported.

The study is divided into 4 categories:

CATEGORY A. Air Warning Ground Controlled Intercept (AW GCI). These are multiple radar sites which contain a variety of electronic equipment and have a capability for the determination of the range, bearing, altitude, and identification, friend or foe (IFF) of aircraft. However, all sites which include a TOKEN-type or BAR LOCK-type radar will be included in this category even if associated height-finding or IFF radar cannot be identified.

CATEGORY B. Air Search. These are normally singly deployed radars which have either limited or no heightfinding capability. Acquisition radars which are associated with AAA or SAM sites will not be reported.

CATEGORY C. Surface Search. These radars are normally deployed on high ground along the coast or on offshore islands and are used to locate and track shipping.

CATEGORY D. Ground Controlled Approach (GCA). These radars are located at airfields and provide an all-weather capacity.

The introduction to each of the categories contains a table of contents and a small-scale plot map. A photographic analysis of the referenced photography, a large-scale plot map, and a photograph are provided for each item.

The type of photography utilized in this report limits mensuration; therefore, all measurements are necessarily approximate.

Since most radar equipment in North Vietnam is mobile and may be readily moved from one location to another, sites will not be deleted from the report and no attempt will be made to report the current operational status of any radar site.

Electronic order-of-battle publications are frequently keyed to a number which is identical to the last part of the BE number and should be consulted for the current status of radar sites.

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CATEGORY A

Air Warning/Ground Controlled Intercept

The North Vietnamese employ a single TOKEN-type radar (usually BAR LOCK or BIG BAR) and a single heightfinder (normally SIDE NET or ROCK CAKE/STONE CAKE) for air warning/ground controlled intercept (AW/GCI). This is not in accordance with the Soviet practice of providing several similar back-up radars at AW/GCI sites.

The North Vietnamese usually attempt to conceal their GCI sites to protect them from US air strikes; however, well defined sites, such as Thuy Ha (page A-22), have also been constructed.

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AIR WARNING/GROUND CONTROLLED INTERCEPT

Map Key	Installation Name	Effective Page
1	Chuc Son	A-2, 3 (May 67)
2	Hanoi/Bac Mai AF	A-4, 5 (May 67)
3	Dong Lai (Phuc Yen)	A-6, 7 (May 67)
4	Ha Noi (Tang My)	A-8, 9 (May 67)
5	Thuong Che	A-10, 11 (Jan 68) (S)
6	Phuc Yen ENE (Duc Hau)	A-12, 13 (Jun 67)
7	Nui Vien Nam	A-14, 15 (Jul 67)
8	Ha Dong	A-16, 17 (Jun 67)
9	Xom Phuong	A-18, 19 (May 67)
10	Kep	A-20, 21 (May 67)
11	Thuy Ha	A-22, 23 (Jun 67)
12	Son Tay (Chieu Dong)	A-24, 25 (Jun 67)
13	Quang Mo	A-26, 27 (Jun, May 67)
14	Xom Ngoai	A-28, 29 (Jan 68) (S)
15	Ngan Son	A-30, 31 (Jan 68) (S)
16	Hai Phong	A-32, 33 (Jan 68) (S)
17	Xom Lom (Moc Chau)	A-34, 35 (Oct 67)
18	Dong Ngoai	A-36, 37 (Jan 68) (S)
19	Kep (Nguyen Thon)	A-38, 39 (Jan 68) (S)
20	Hoa Lac	A-40, 41 (Nov 67)
21	Thuong Che (Hong Cau)	A-42, 43 (Jan 68) (S)
22	Bac Vong	A-44, 45 (Jan 68) (S)
23	Nhan My	A-46, 47 (Jan 68)
24	Duc Thang	A-48, 49 (Jan 68) (S)
25	Nghi Duong	A-50, 51 (Jan 68) (S)

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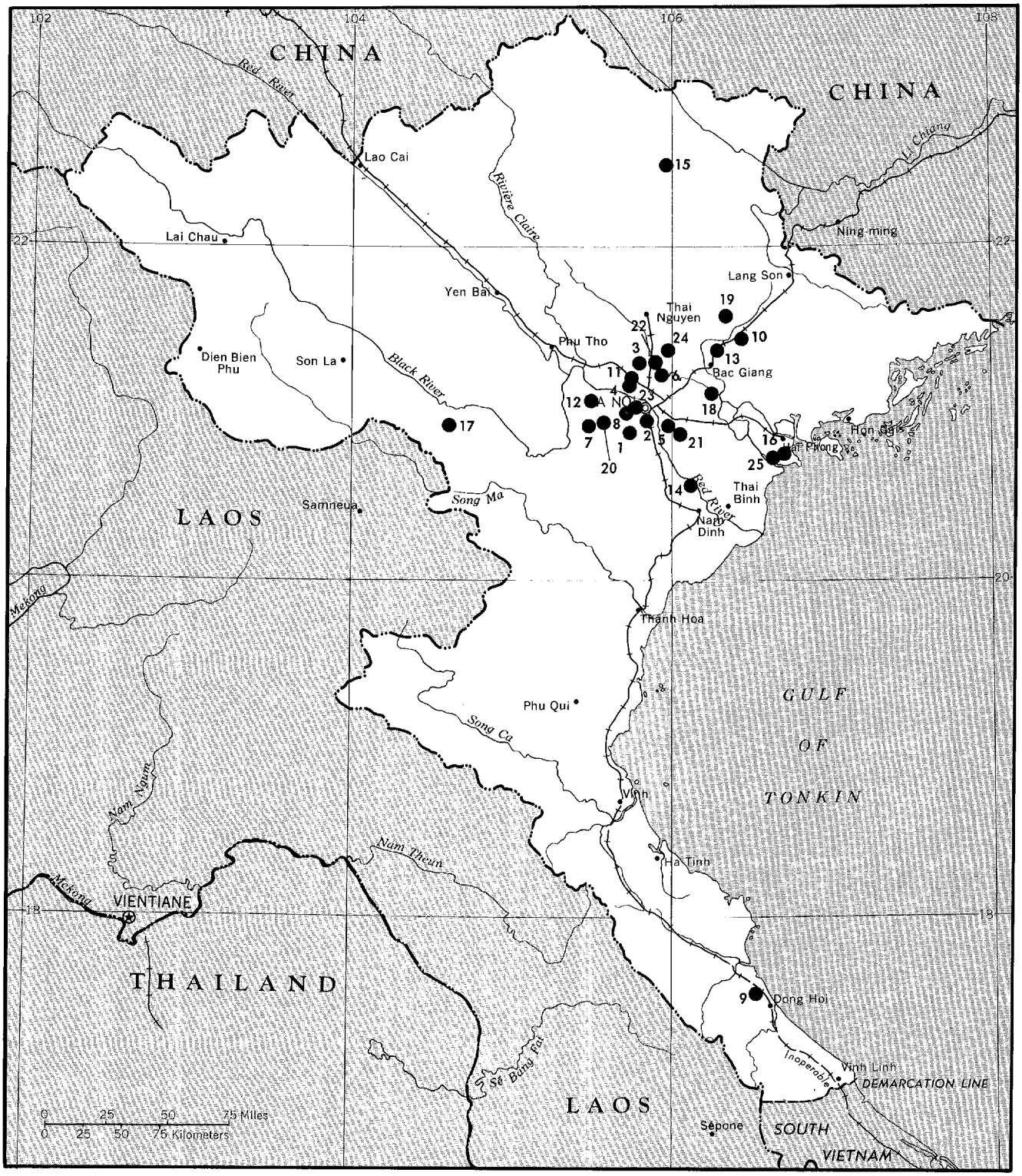
CATEGORY A

AIR WARNING/GROUND CONTROLLED INTERCEPT



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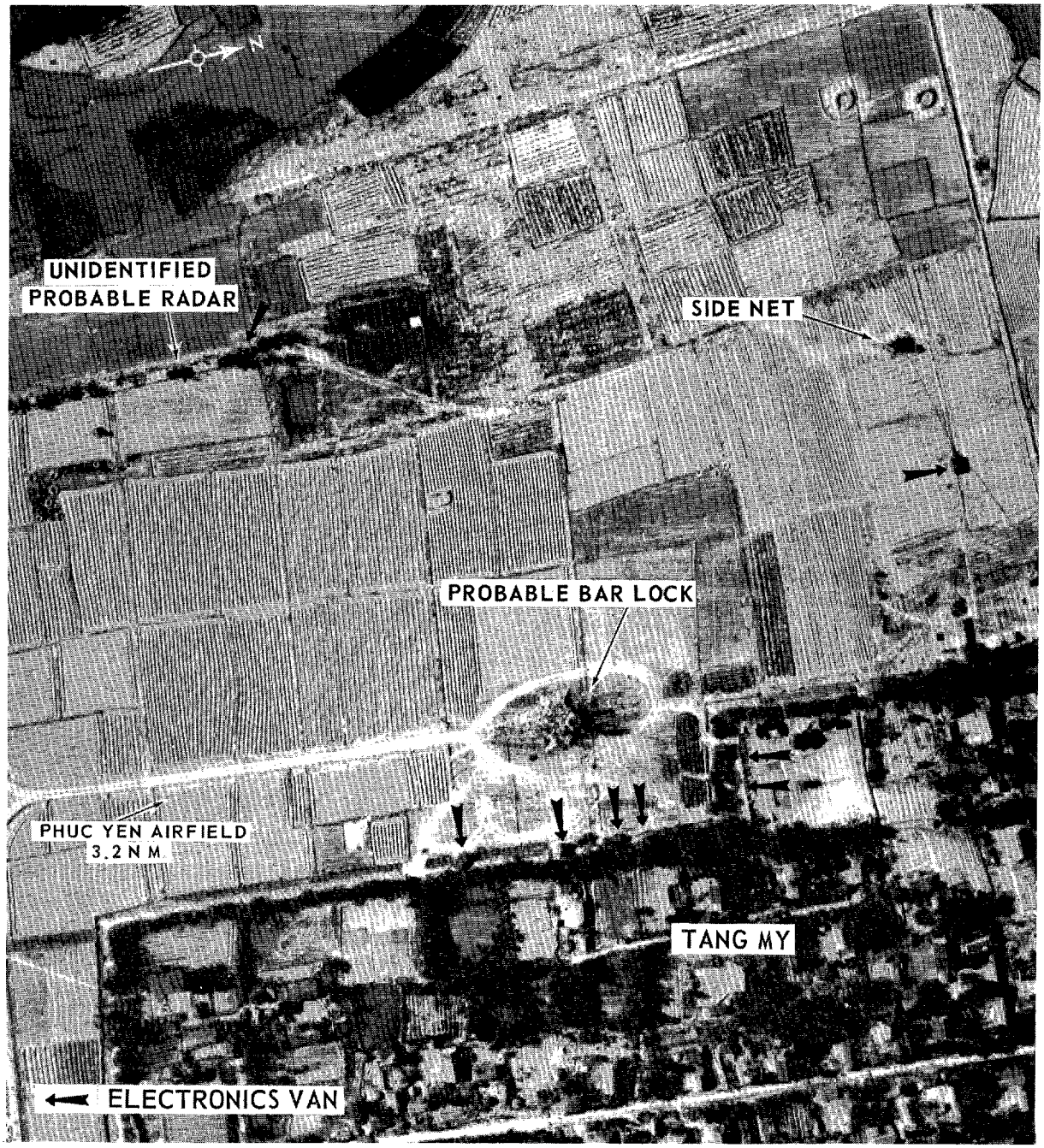
SECRET
[redacted]

TANG MY

WJ826408
UTM COORDINATES

21-10N 105-47E
GEOGRAPHIC COORDINATES



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25X1A

[redacted]	XJ125186	20-58N 105-58E
BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES

NAME: THUONG CHE AW/GCI FACILITY

LOCATION: IMMEDIATELY WEST OF THUONG CHE AND 6.4 NM NE OF HANOI/GIA LAM AIRFIELD

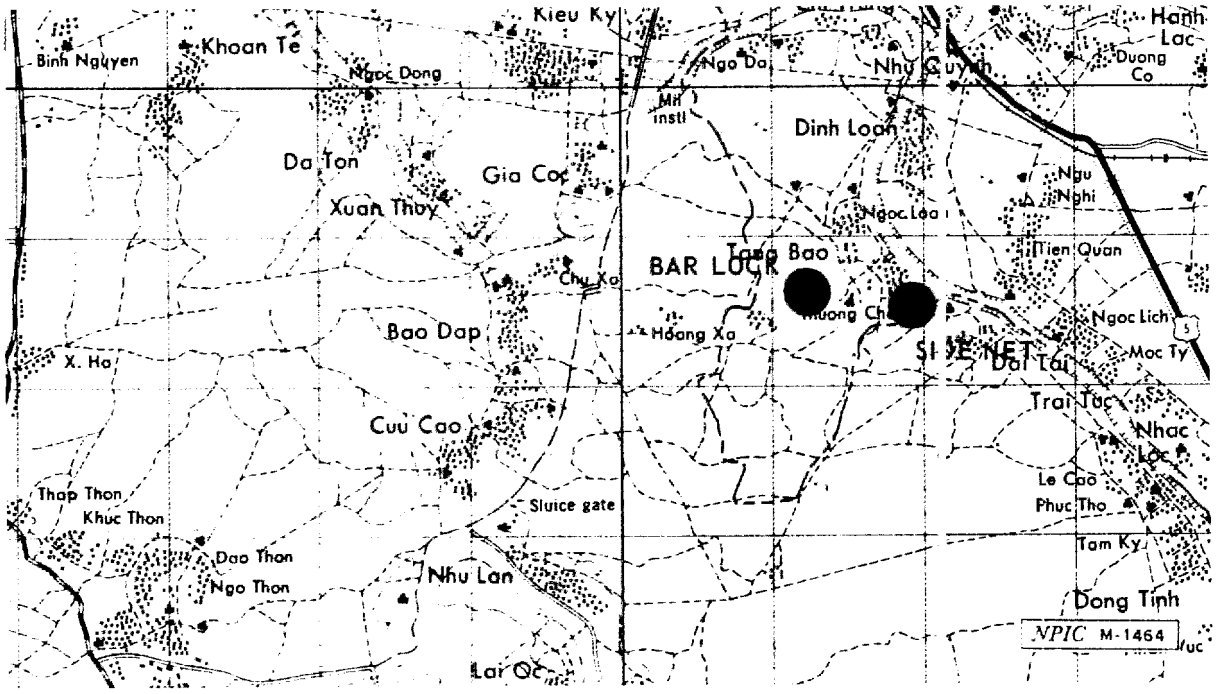
DESCRIPTION: FACILITY CONSISTS OF A BAR LOCK RADAR ON A MOUND WITH 2 VAN TRAILERS, 1 VAN TRUCK, AND 1 UNIDENTIFIED VEHICLE, ALL OF WHICH ARE REVETTED AND CAMOUFLAGED.

A SIDE NET RADAR AND A MOUND WITH 2 UNREVETTED VAN TRAILERS IS LOCATED APPROXIMATELY 600 YDS EAST OF THE BAR LOCK.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6150-1, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-15



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[redacted]

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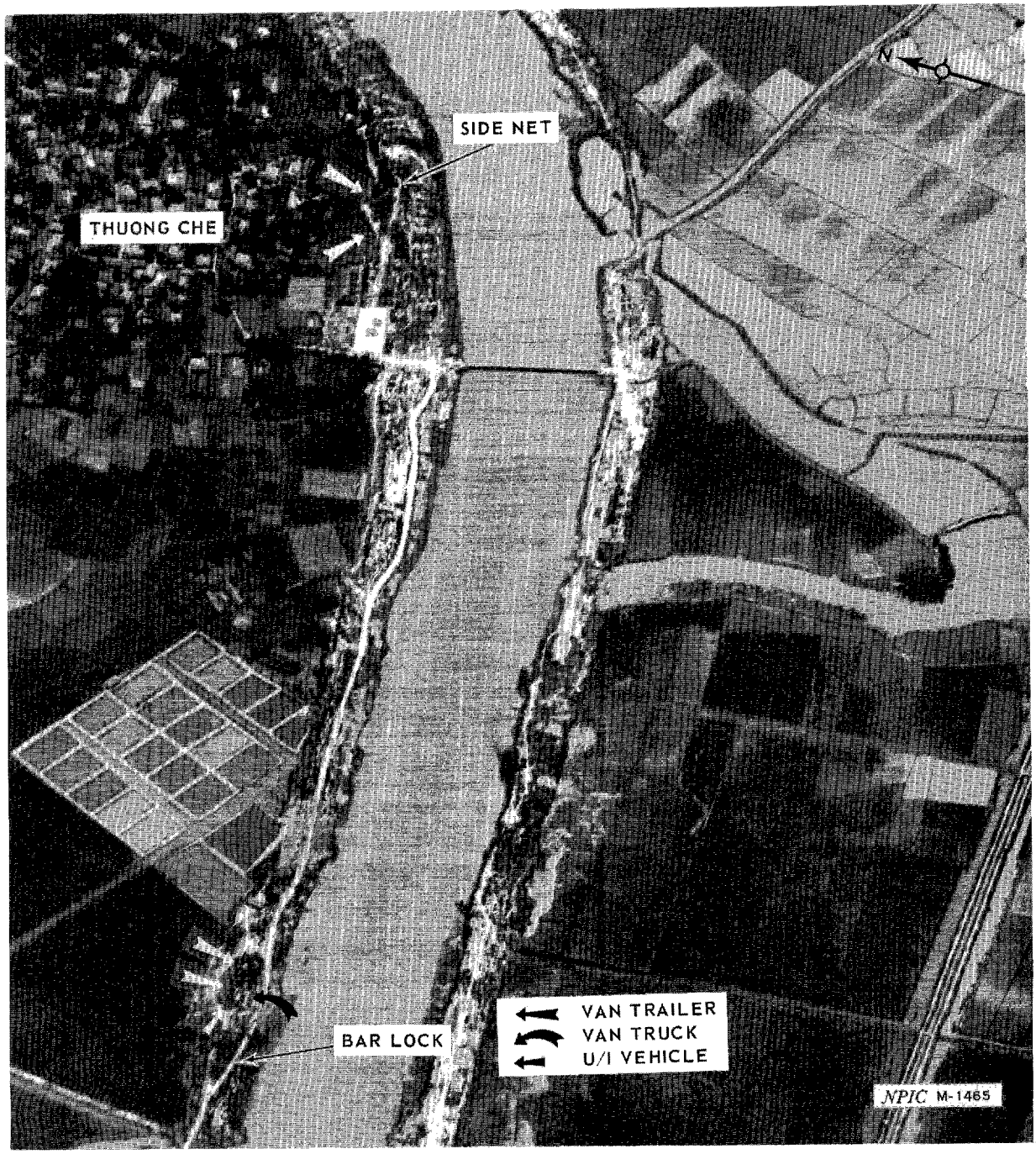
THUONG CHE AW/GCI FACILITY

XJ125186
UTM COORDINATES

20-58N 105-58E
GEOGRAPHIC COORDINATES



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25X1A

[redacted]	WJ918484	21-14N 105-53E
BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES

NAME: PHUC YEN AW/GCI SITE ENE (DUC HAU)

LOCATION: 4.3 NM ENE OF THE PHUC YEN AIRFIELD

DESCRIPTION: FACILITY CONSISTS OF 4 RADARS (AREAS A THROUGH D). AREA A CONTAINS A BIG BAR ON A MOUND WITH AN END BOX ON EACH REFLECTOR, 2 REVETTED VAN TRAILERS, A REVETTED ANTENNA TRANSPORT TRAILER, A REVETTED VAN TRUCK WITH AN UNIDENTIFIED PROBABLE MAST, AND A TRACKED PRIME MOVER. CABLES CONNECT THE BIG BAR WITH THE VAN TRAILERS AND THE VAN TRUCK. FIVE SUPPORT BUILDINGS (ONE REVETTED) ARE IN THE IMMEDIATE VICINITY AND A REVETTED VAN TRUCK WITH AN UNIDENTIFIED MAST IS IMMEDIATELY EAST OF THE BIG BAR.

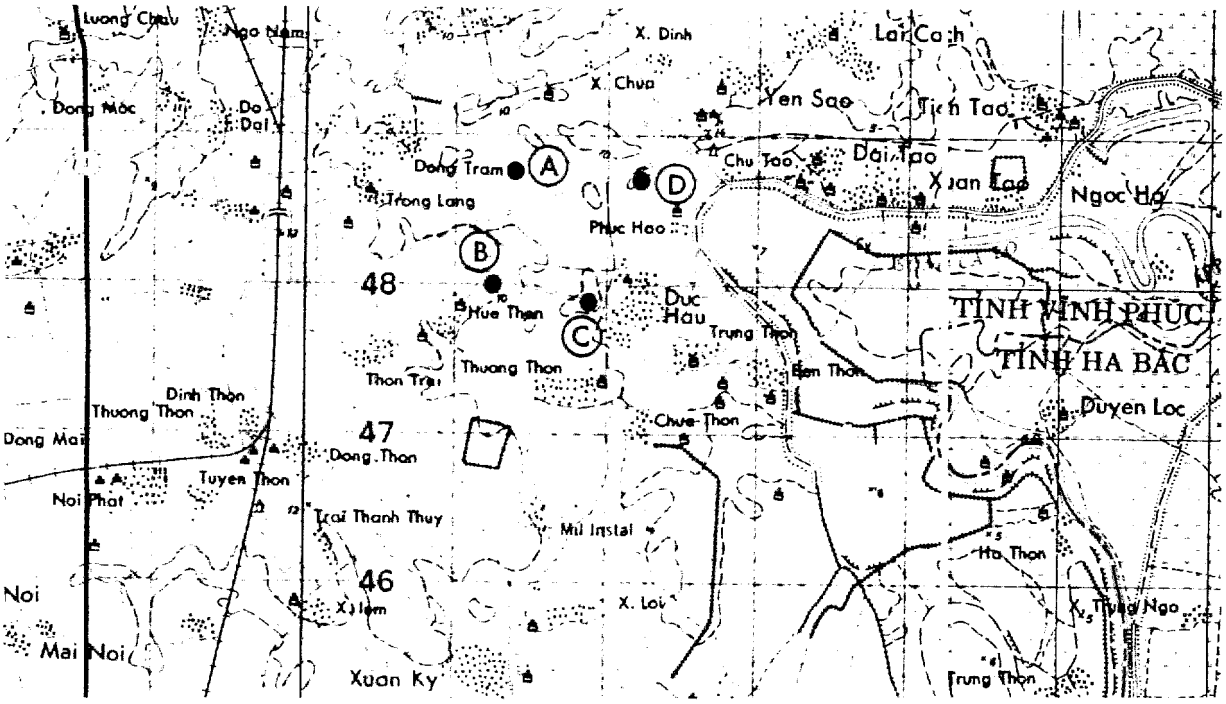
AREA B CONTAINS A SIDE NET ON A MOUND WITH 2 ADJACENT VAN TRAILERS AND A SUPPORT BUILDING.

AREA C CONTAINS A REVETTED KNIFE REST B AND A REVETTED VAN TRUCK. THE BIG BAR AND SIDE NET RADARS WERE LOCATED HERE ON [redacted] 25X1D

AREA D CONTAINS A REVETTED PROBABLE FLAT FACE RADAR, A REVETTED SINGLE-AXLE TRAILER, AND A SUPPORT BUILDING.

PHOTO REFERENCES: [redacted] 25X1D

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-II, 1ST ED, 1965 (U)



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[redacted]

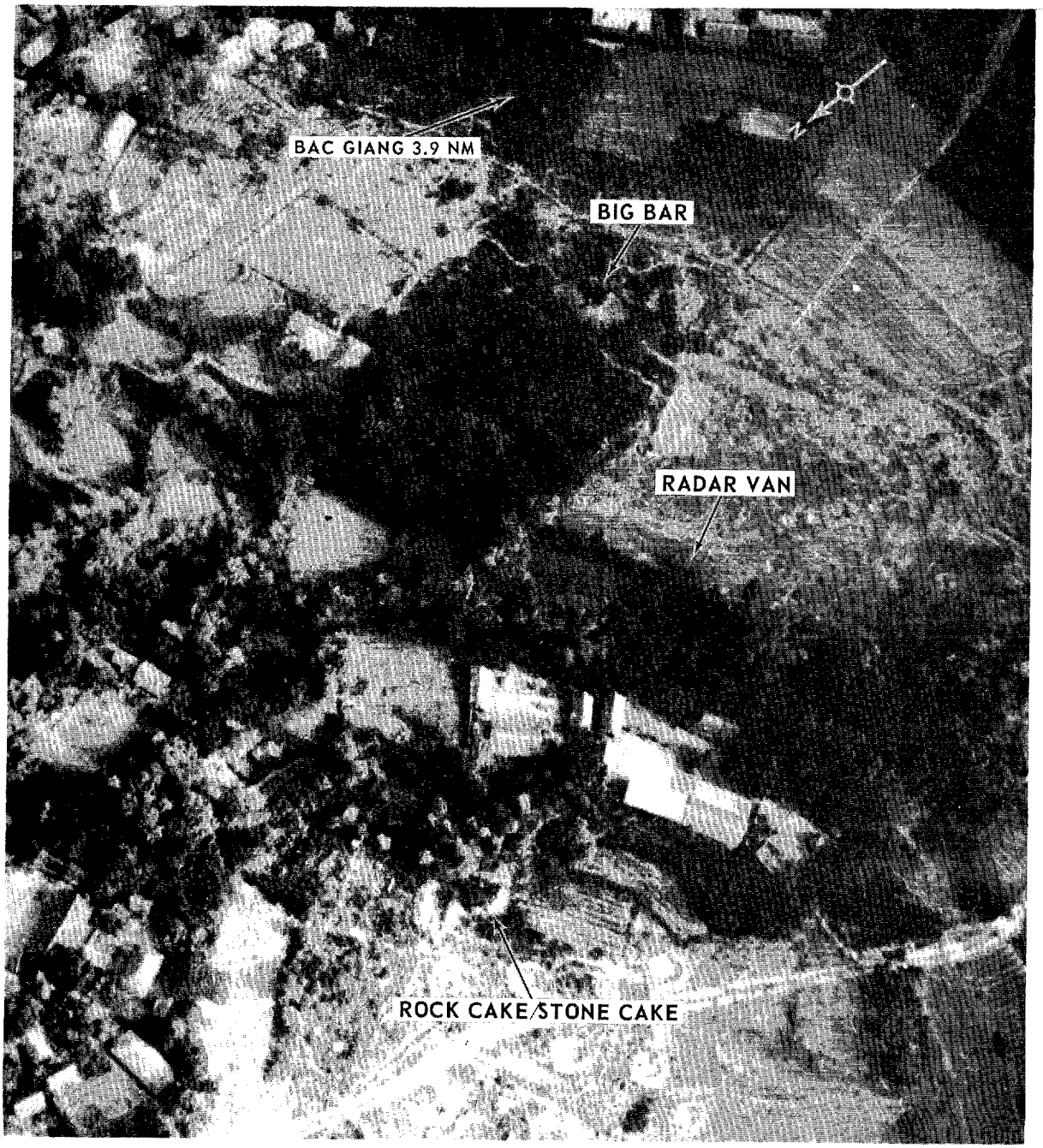
Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
25X1C SECRET
[redacted]

(INFORMATION ON THIS PAGE IS CONFIDENTIAL/NO FOREIGN [redacted]

QUANG MO 25X1C

XJ282587
UTM COORDINATES

21-19N 106-14E
GEOGRAPHIC COORDINATES



Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
25X1C SECRET
[redacted]

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[redacted]

BE NUMBER	XH087786 UTM COORDINATES	20-36N 106-02E GEOGRAPHIC COORDINATES

NAME: XOM NGOAI AW/GCI FACILITY

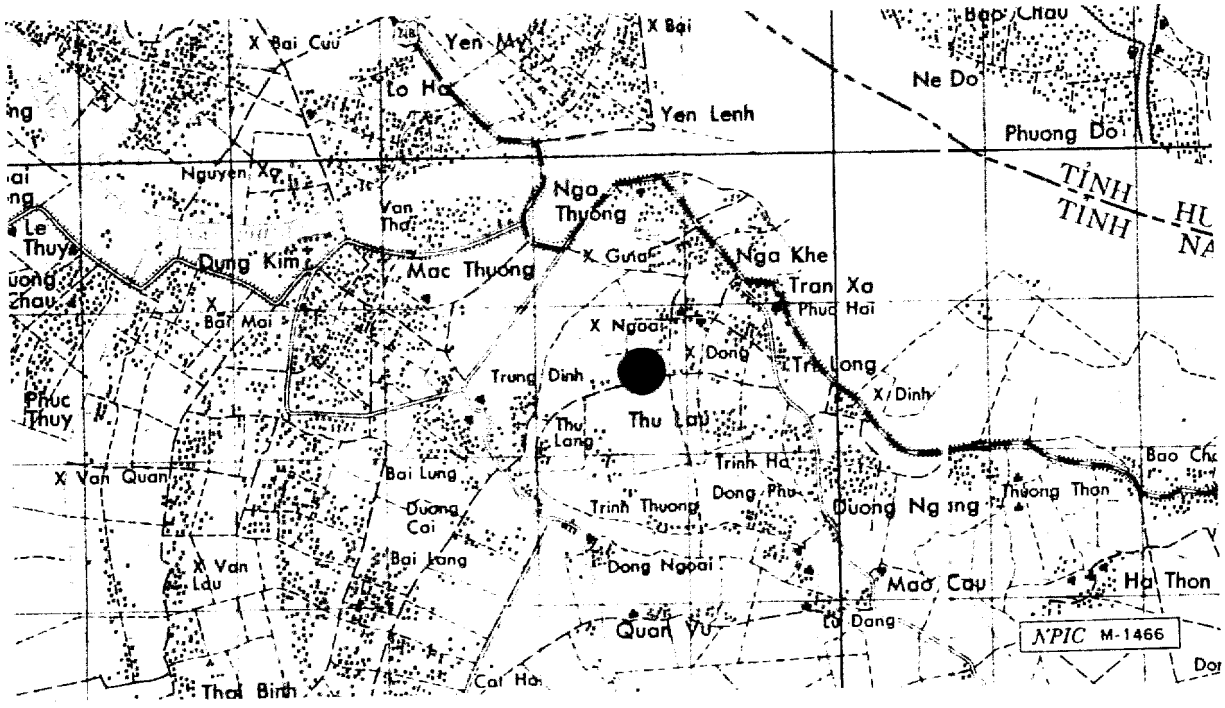
LOCATION: IMMEDIATELY SW OF XOM NGOAI AND 2.5 NM SW OF HUNG YEN

DESCRIPTION: FACILITY CONSISTS OF A RADAR MOUND AND 3 VEHICLE REVETMENTS. TWO ADDITIONAL REVETMENTS ARE LOCATED NEARBY.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6250 III, 1ST ED, 1965
AMS SERIES 1501, SHEET NF 48-15



Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5

[redacted]

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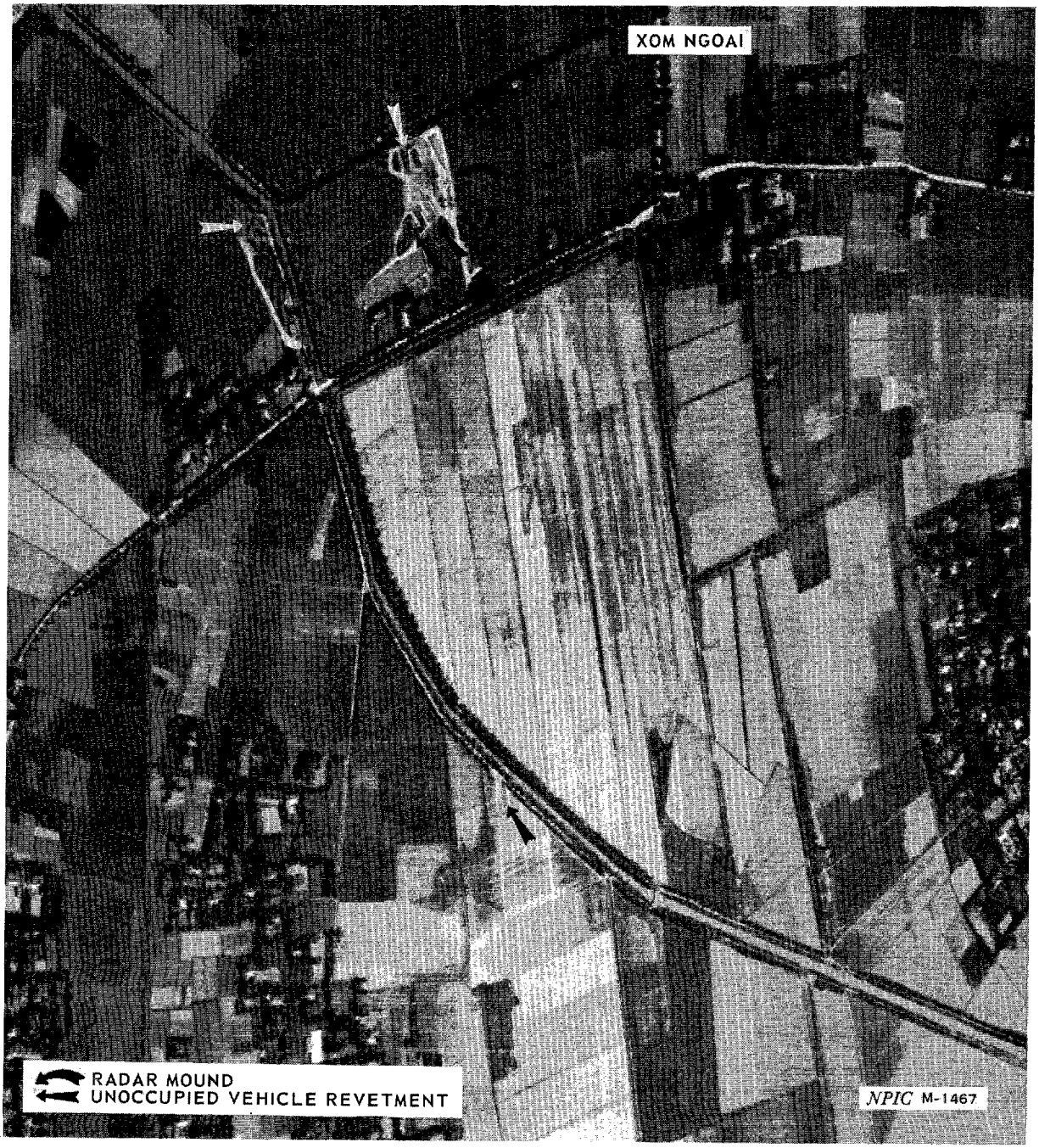
XOM NGOAI AW/GCI FACILITY

XH087786
UTM COORDINATES

20-36N 106-02E
GEOGRAPHIC COORDINATES



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25X1C SECRET

25X1A

[redacted]	WK981800	22-25N 105-57E
BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES

NAME: NGAN SON AW/GCI FACILITY

LOCATION: 2.9 NM WEST OF NGAN SON AND 25.5 NM SW OF CAO BANG.

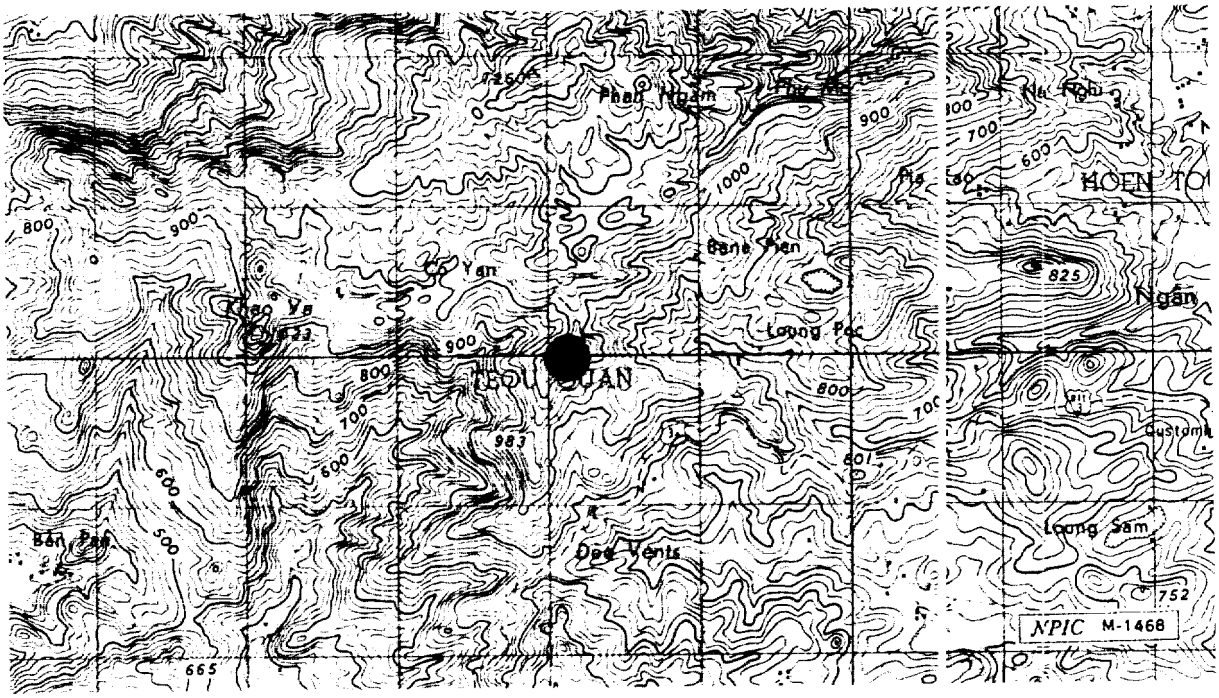
DESCRIPTION: FACILITY CONSISTS OF A TOKEN-TYPE RADAR (PROBABLY BIG BAR), 2 REVETTED VAN TRAILERS, 1 REVETTED VAN TRUCK, AND 7 SUPPORT BUILDINGS. A POSSIBLE RADAR POSITION UNDER CONSTRUCTION, 3 CAVE ENTRANCES, AND AN EMPTY REVETMENT ARE ADJACENT TO THE SITE.

THREE VAN TRAILERS, 1 CARGO TRUCK WITH A POSSIBLE TRAILER, AND 2 UTILITY TRUCKS ARE OBSERVED IMMEDIATELY SE OF THE SITE, ON ROUTE 3/ AT ITS JUNCTION WITH THE ACCESS ROAD.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET, 6153-1, 1ST ED, 965 (U)
AMS SERIES 1501, SHEET NF 48-7



[redacted]

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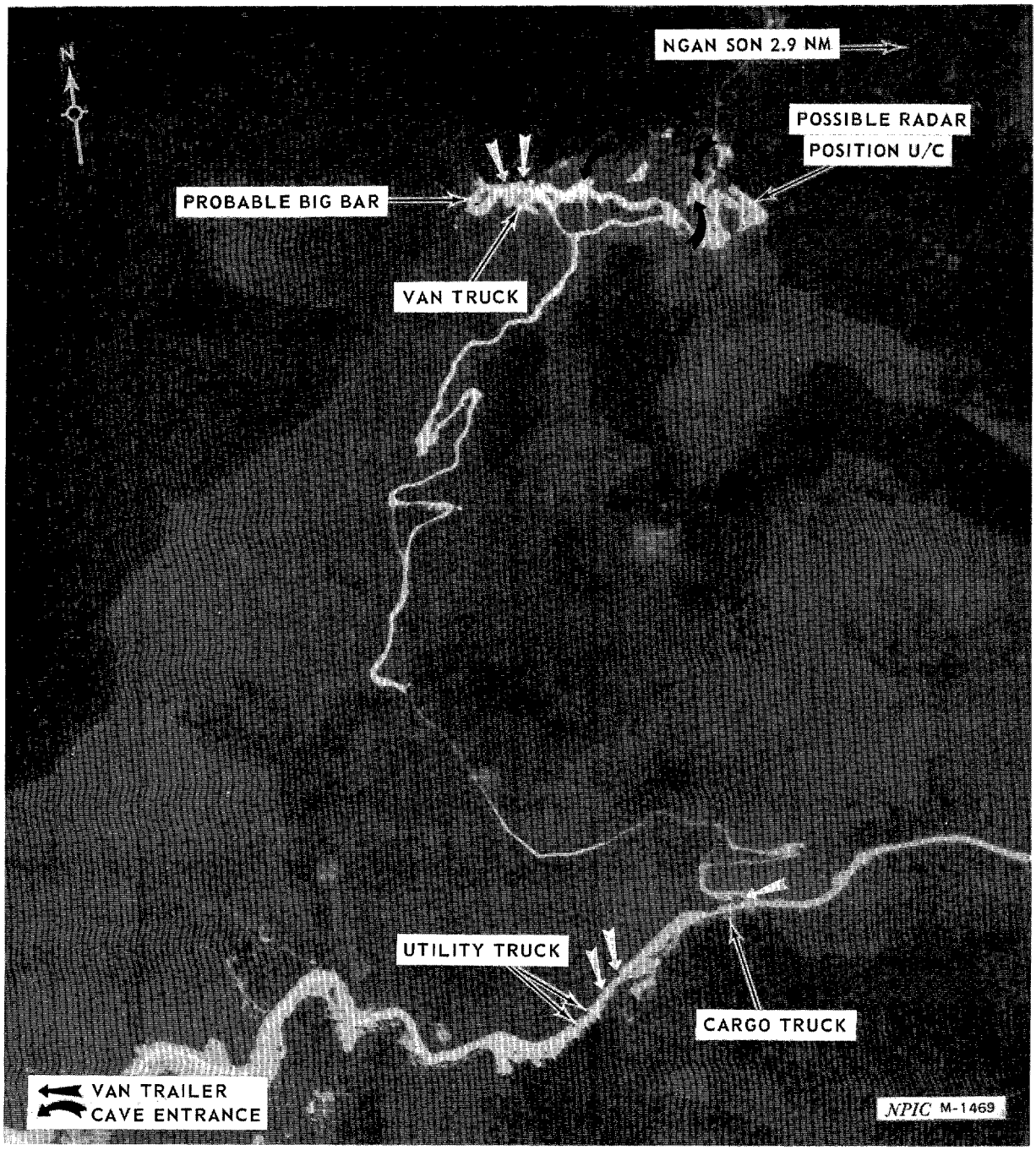
25X1C
SECRET
NPIC/R-32/67
DOWNGRADED

NGAN SON AW/GCI FACILITY

WK981800
UTM COORDINATES

22-25N 105-57E
GEOGRAPHIC COORDINATES



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25X1C
SECRET

Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5

[redacted]

25X1A

[redacted] BE NUMBER	XH759962 UTM COORDINATES	20-45N 106-41E GEOGRAPHIC COORDINATES

NAME: HAI PHONG AW/GCI FACILITY

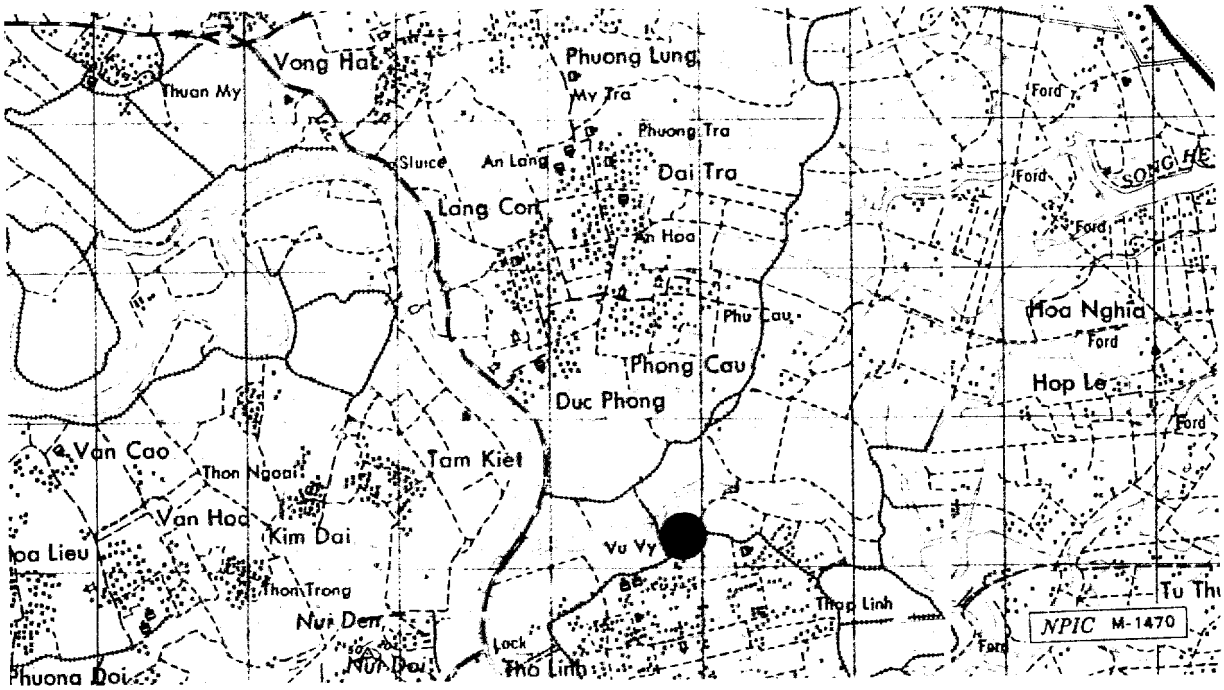
LOCATION: 6.4 NM SOUTH OF HAI PHONG

DESCRIPTION: FACILITY CONSISITS OF A PROBABLE BAR LOCK RADAR ON A MOUND WITH A REVETTED VAN TRUCK AND 4 UNIDENTIFIED VEHICLES; A REVETTED POSSIBLE FLAT FACE RADAR WITH A GENERATOR TRAILER; AND A RADAR POSITION WITH 2 UNIDENTIFIED VEHICLES ON A MOUND, 1 OTHER UNIDENTIFIED VEHICLE, AND A REVETTED VAN TRUCK.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6350-IV, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-16



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[redacted]

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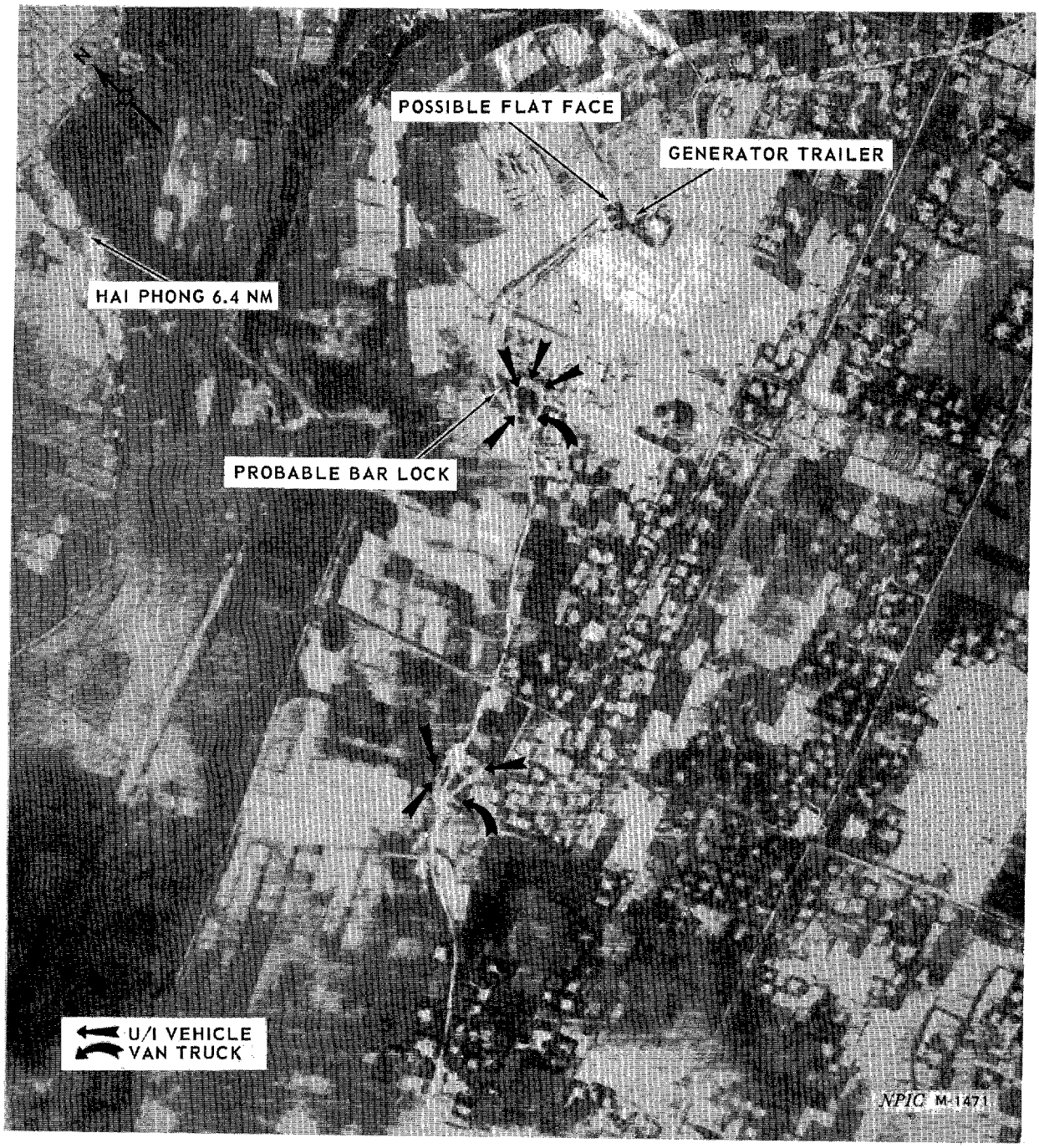
HAI PHONG AW/GCI FACILITY

XH759962
UTM COORDINATES

20-45N 106-41E
GEOGRAPHIC COORDINATES



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25X1A

[redacted]	VJ593086	20-5 N 104-36E
BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES

NAME: XOM LOM (MOC CHAU) AW/GCI FACILITY

LOCATION: 2.0 NM NW OF MOC CHAU

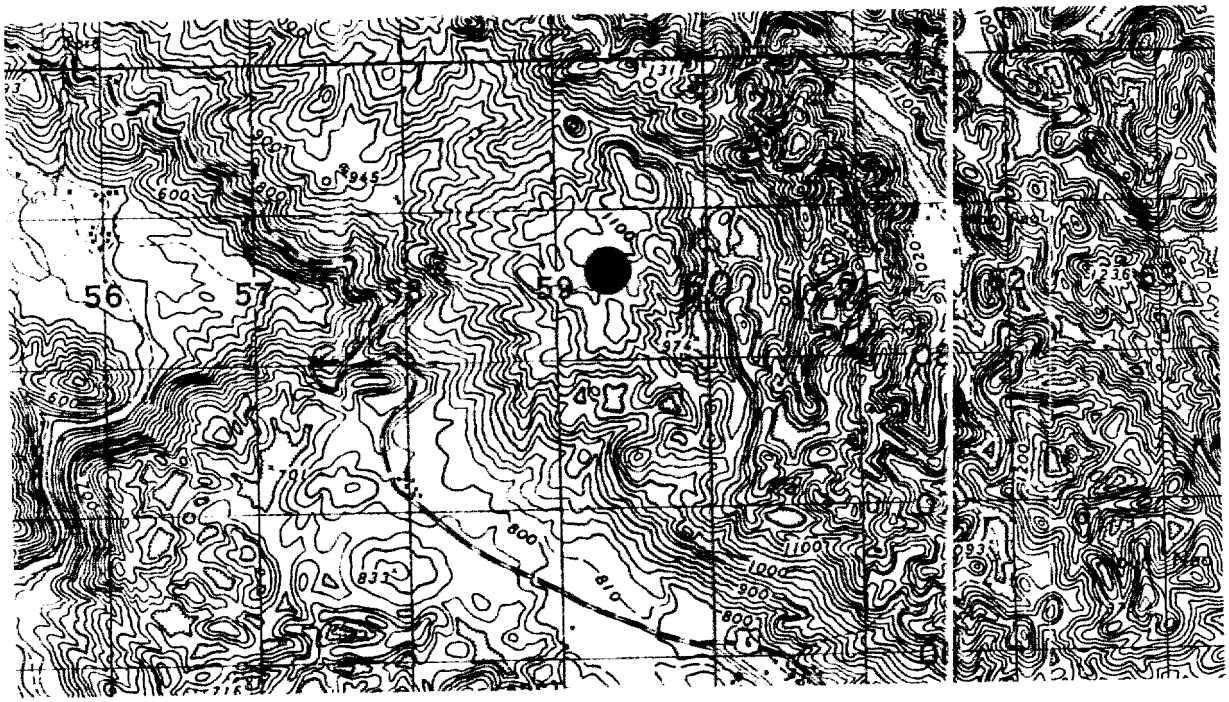
DESCRIPTION: FACILITY CONSISTS OF 1 BIG BAR RADAR, 1 SIDE NET RADAR, AND AT LEAST 2 VAN TRAILERS.

A PROBABLE SUPPORT AREA IS LOCATED NEARBY.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 5950-IV, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-14



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[redacted]

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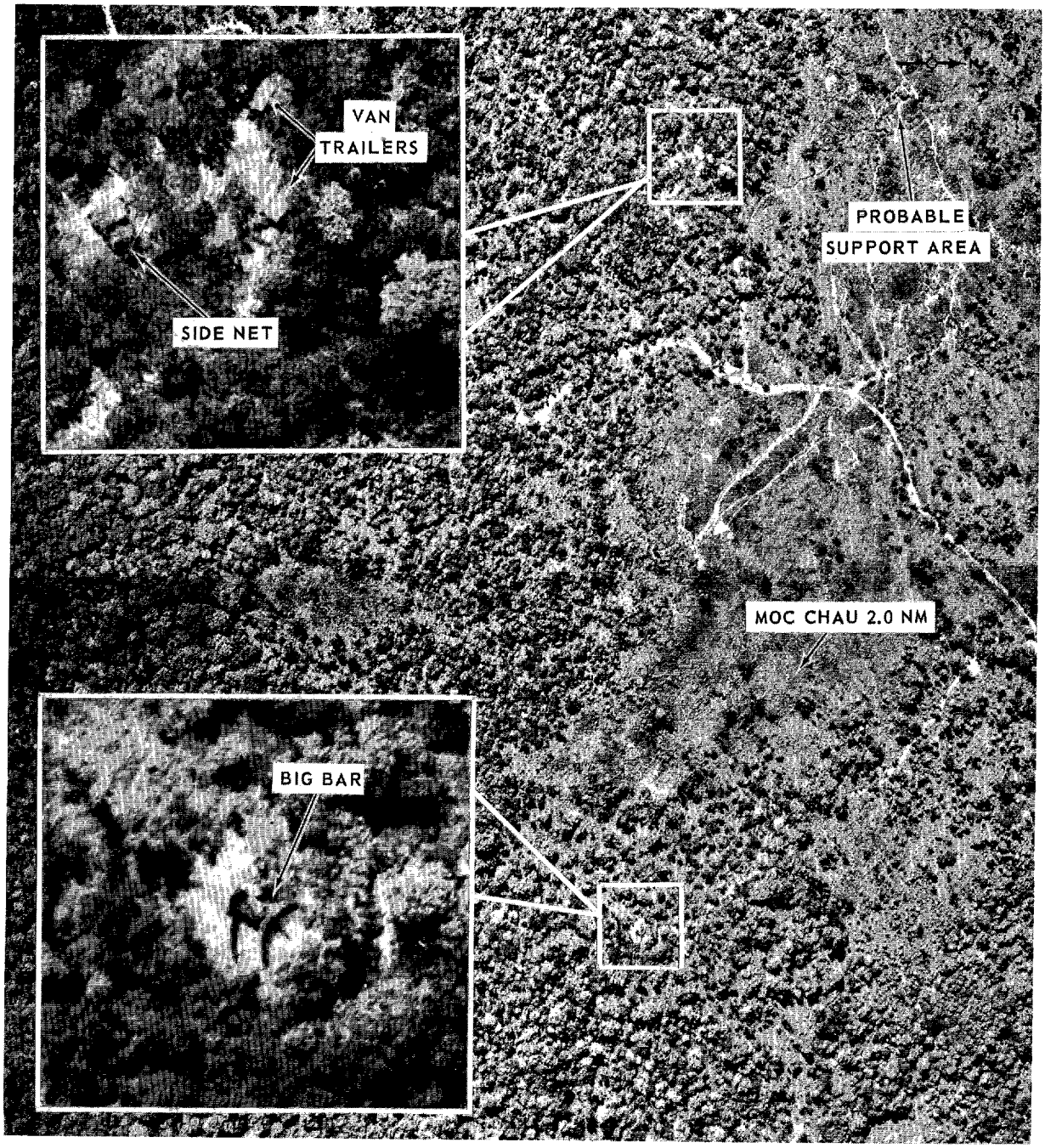
XOM LOM (MOC CHAU) AW/GCI FACILITY

VJ593086
UTM COORDINATES

20-52N 104-36E
GEOGRAPHIC COORDINATES



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[redacted]

BE NUMBER	XJ192230 UTM COORDINATES	21-10N 106-08E GEOGRAPHIC COORDINATES

NAME: DONG NGOAI AW/GCI FACILITY

LOCATION: 1.3 NM EAST OF DONG NGOAI AND 12.1 NM SSW OF BAC NINH.

DESCRIPTION: FACILITY CONSISTS OF 4 RADAR POSITIONS.

(A) UTM XJ190232 -- RADAR MOUND AND 3 VEHICLE REVETMENTS.

(B) UTM XJ191234 -- RADAR MOUND, 2 VEHICLE REVETMENTS, AND 1 OTHER REVETMENT.

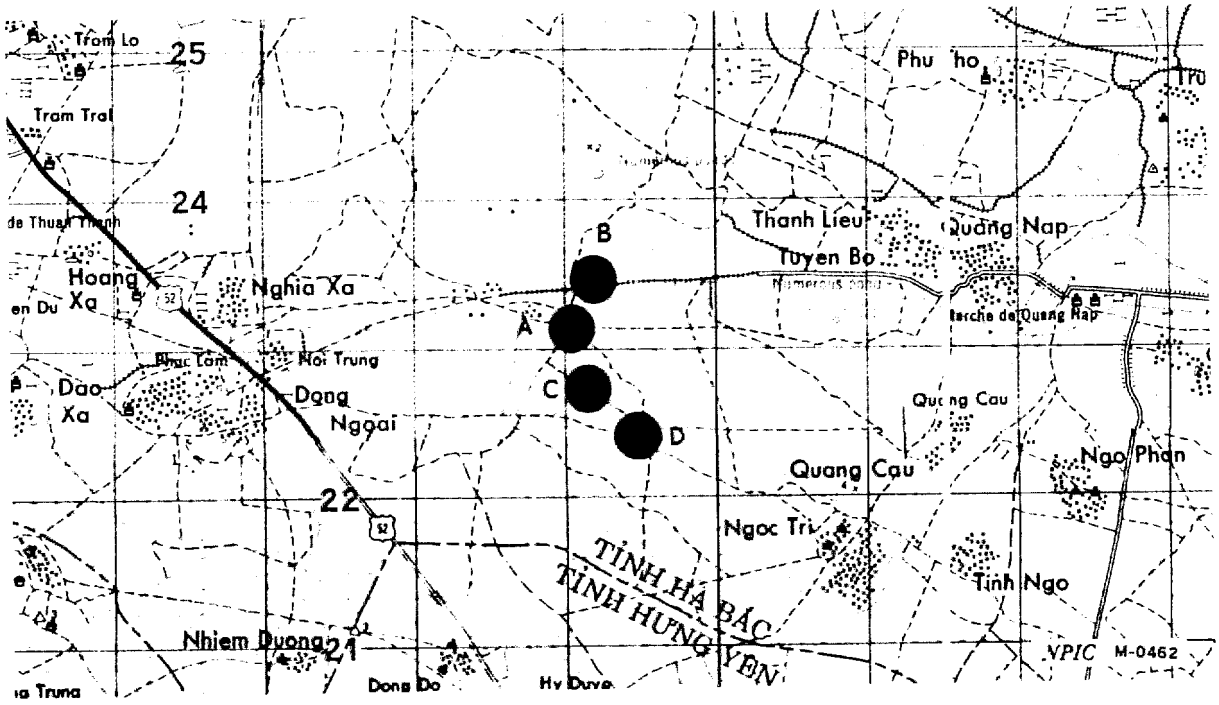
(C) UTM XJ191228 -- 1 VEHICLE REVETMENT AND 1 SMALLER REVETMENT (PROBABLY FOR GENERATOR).

(D) UTM XJ195225 -- 1 VEHICLE REVETMENT AND 1 SMALLER REVETMENT (PROBABLY FOR GENERATOR).

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6251-III, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



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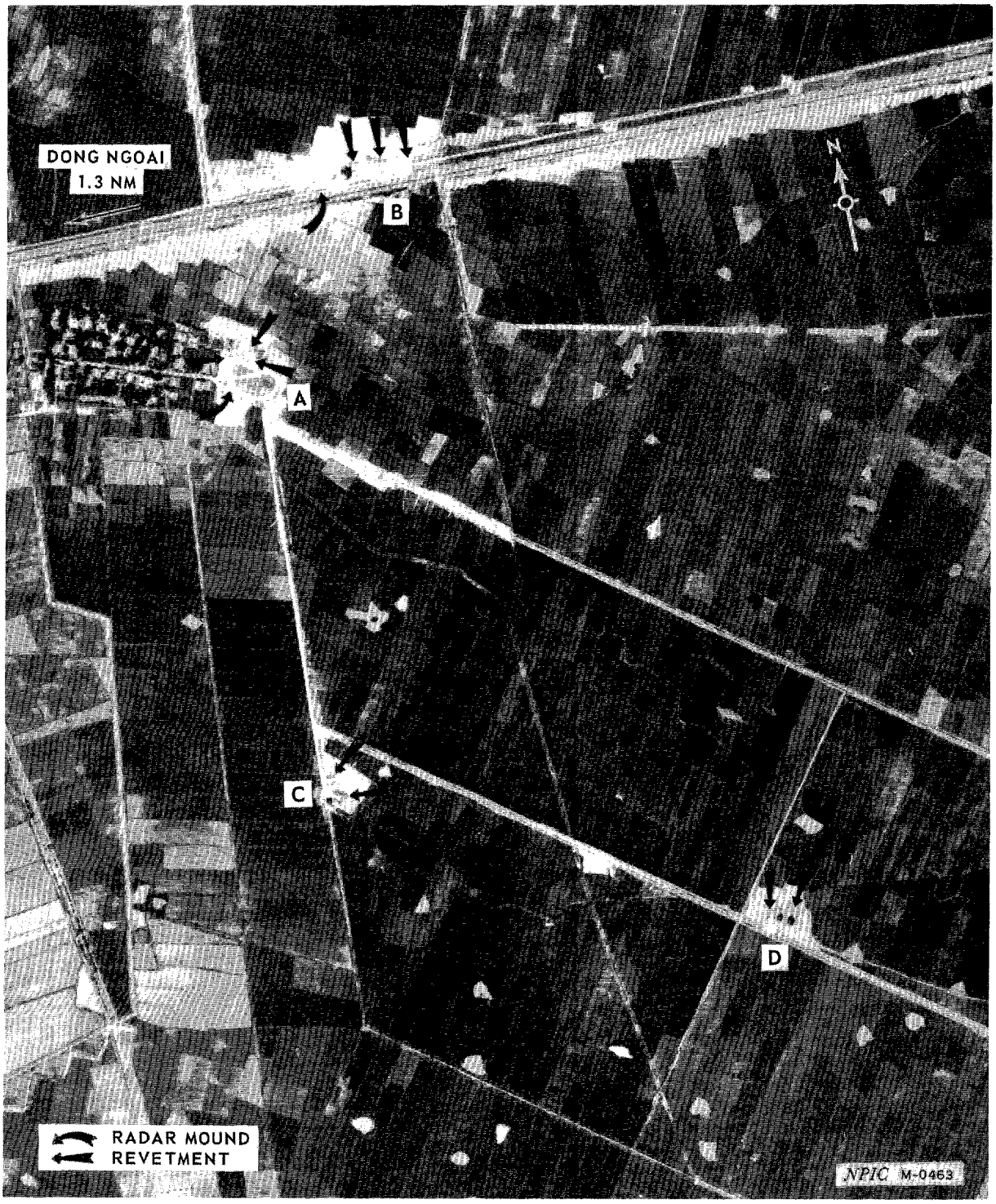
DONG NGOAI AW/GCI FACILITY

XJ192230
UTM COORDINATES

21-00N 106-08E
GEOGRAPHIC COORDINATES



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BE NUMBER	XJ243674 UTM COORDINATES	21-24N 106-11E GEOGRAPHIC COORDINATES

NAME: KEP (NGUYEN THON) AW/GCI FACILITY

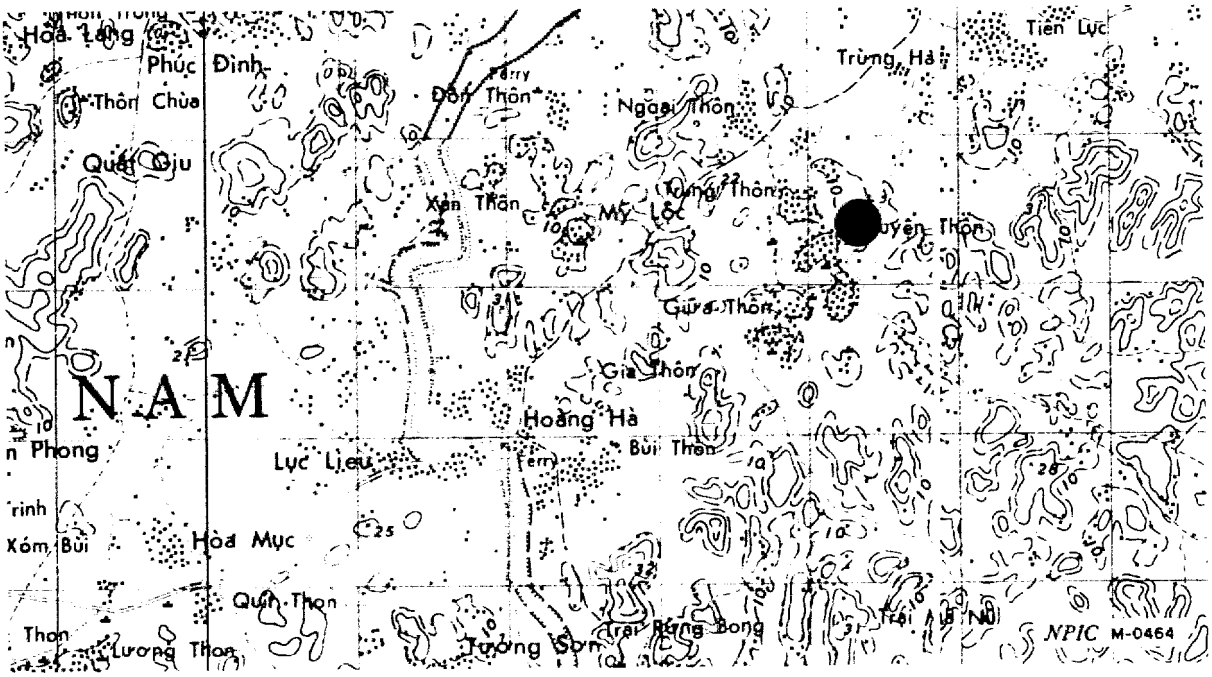
LOCATION: IMMEDIATELY NE OF NGUYEN THON AND 3.8 NM WNW OF KEP AIRFIELD.

DESCRIPTION: FACILITY CONSISTS OF A PROBABLE BIG BAR RADAR ON A MOUND WITH 2 REVETTED VAN TRAILERS, 1 REVETTED VAN TRUCK, AND 1 REVETTED PROBABLE ANTENNA TRANSPORT TRAILER ON A LOW HILL IN A WOODED AREA.

25X1D

PHOTO REFERENCES [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6251-IV, 1ST ED, 965 (U)
AMS SERIES 1501, SHEET NF 48-11



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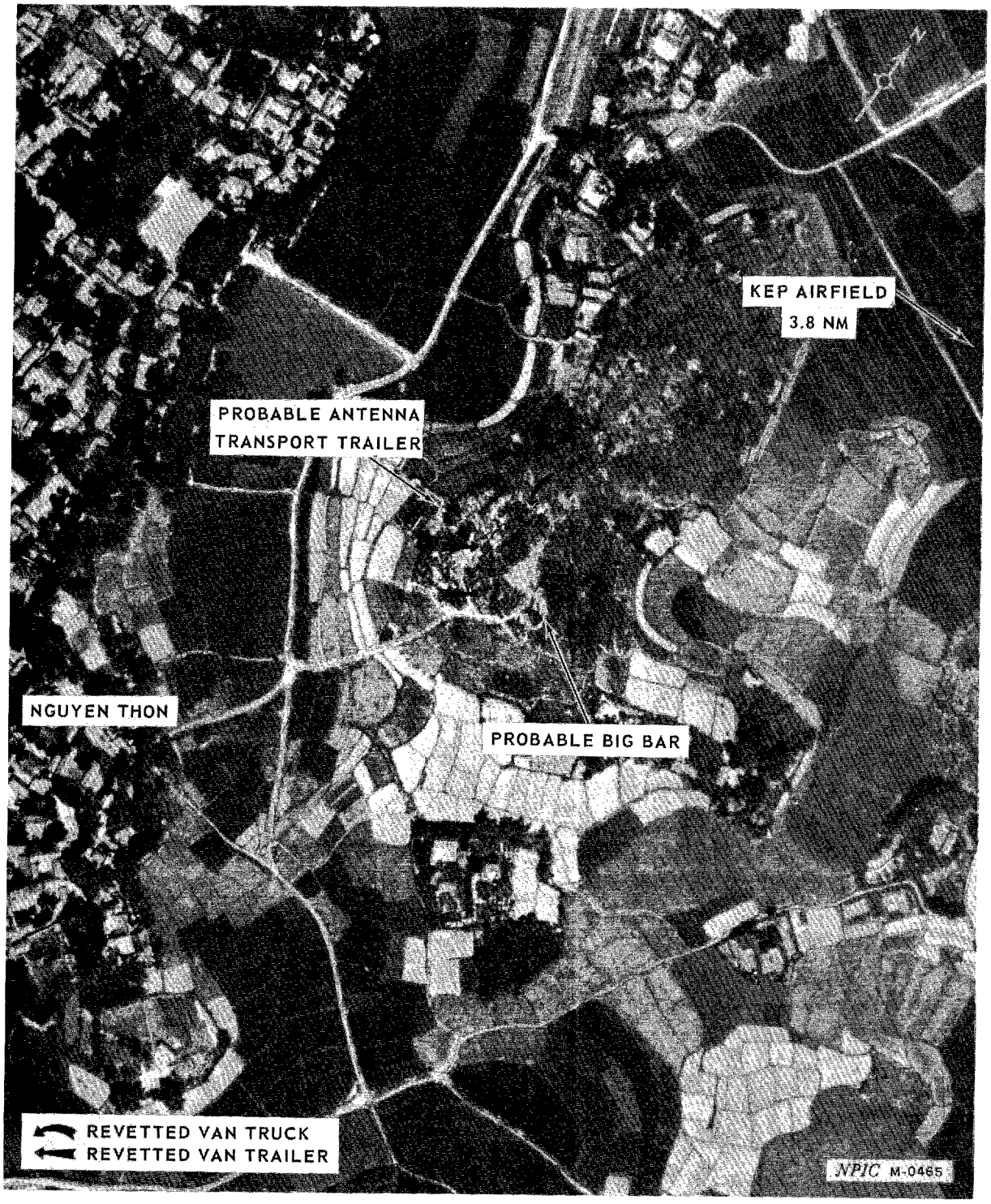
KEP (NGUYEN THON) AW/GCI FACILITY

XJ243674
UTM COORDINATES

21-24N 106-11E
GEOGRAPHIC COORDINATES



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BE NUMBER	WJ630227 UTM COORDINATES	21-00N 105-36E GEOGRAPHIC COORDINATES

NAME: HOA LAC AW/GCI FACILITY

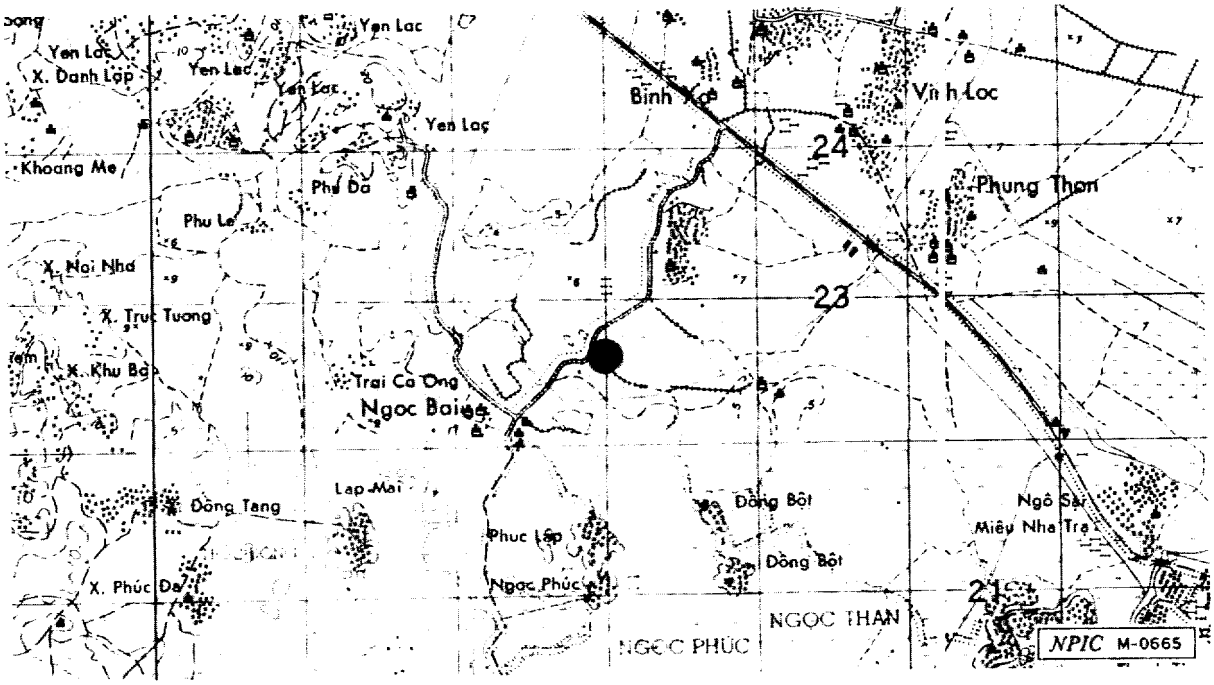
LOCATION: 6.0 NM ESE OF HOA LAC AIRFIELD

DESCRIPTION: FACILITY CONSISTS OF A CAMOUFLAGED BIG BAR RADAR AND AT LEAST 2 PROBABLE VAN TRAILERS ON A WOODED KNOLL.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-III, 1ST ED. 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



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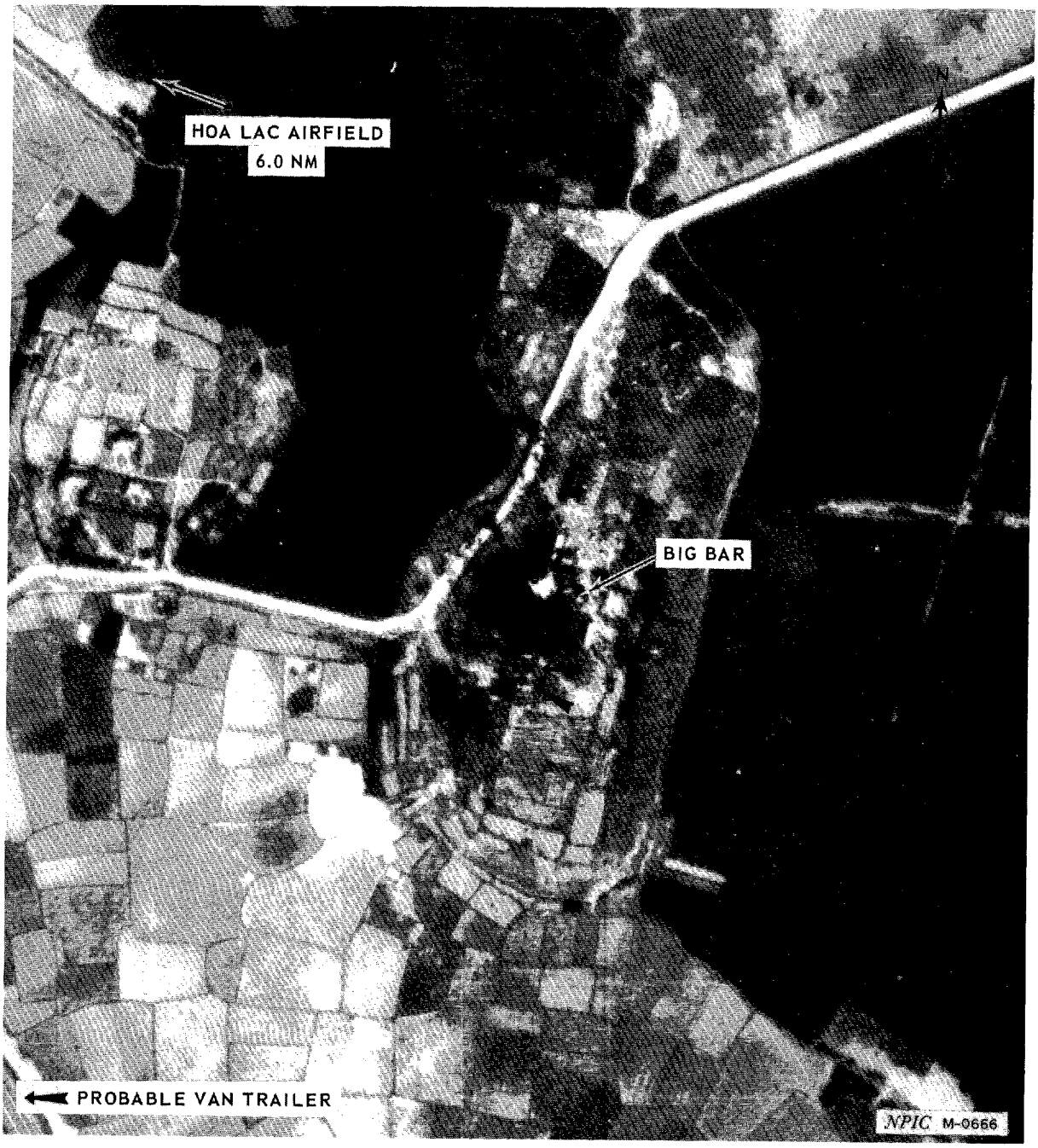
(INFORMATION ON THIS PAGE IS CONFIDENTIAL)

HOA LAC AW/GCI FACILITY

WJ630227
UTM COORDINATES

21-00N 105-36E
GEOGRAPHIC COORDINATES



BE NUMBER	XJ063177 UTM COORDINATES	20-57N 106-01E GEOGRAPHIC COORDINATES

NAME: THUONG CHE (HONG CAU) AW/GCI FACILITY

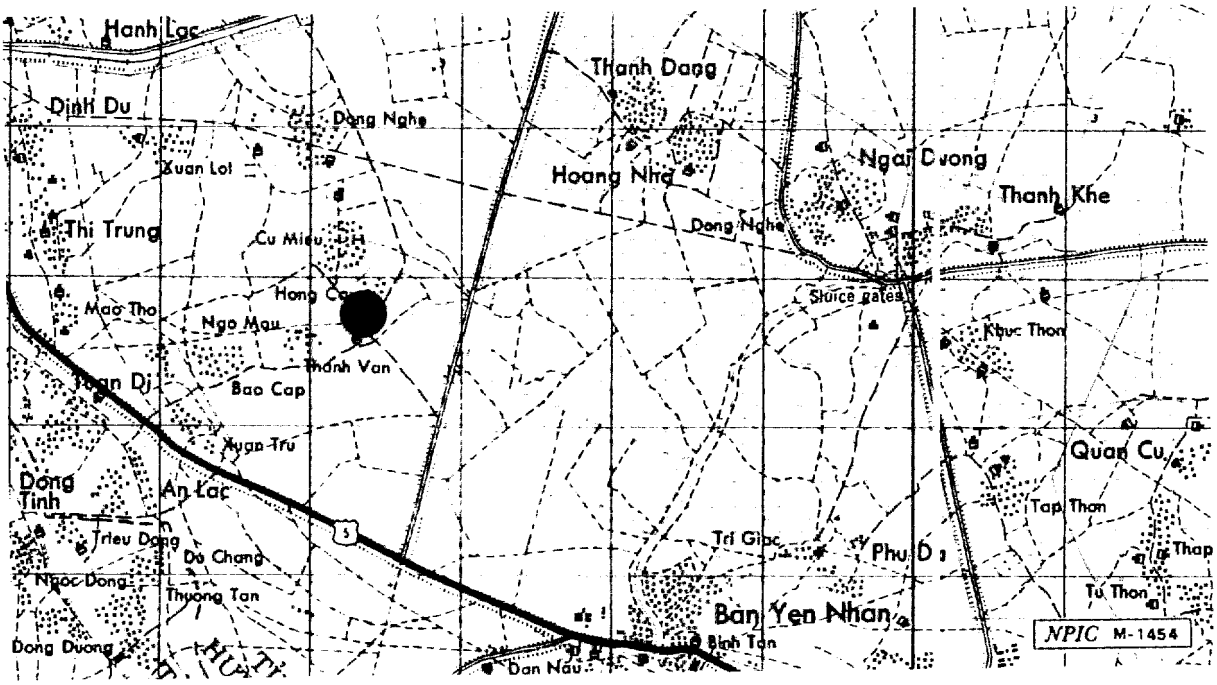
LOCATION: SW EDGE OF HONG CAU

DESCRIPTION: FACILITY CONSISTS OF 1 BAR LOCK RADAR AND 1 SIDE NET RADAR. AT LEAST 3 PROBABLE VAN TRAILERS ARE OBSERVED.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6250-IV, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-15



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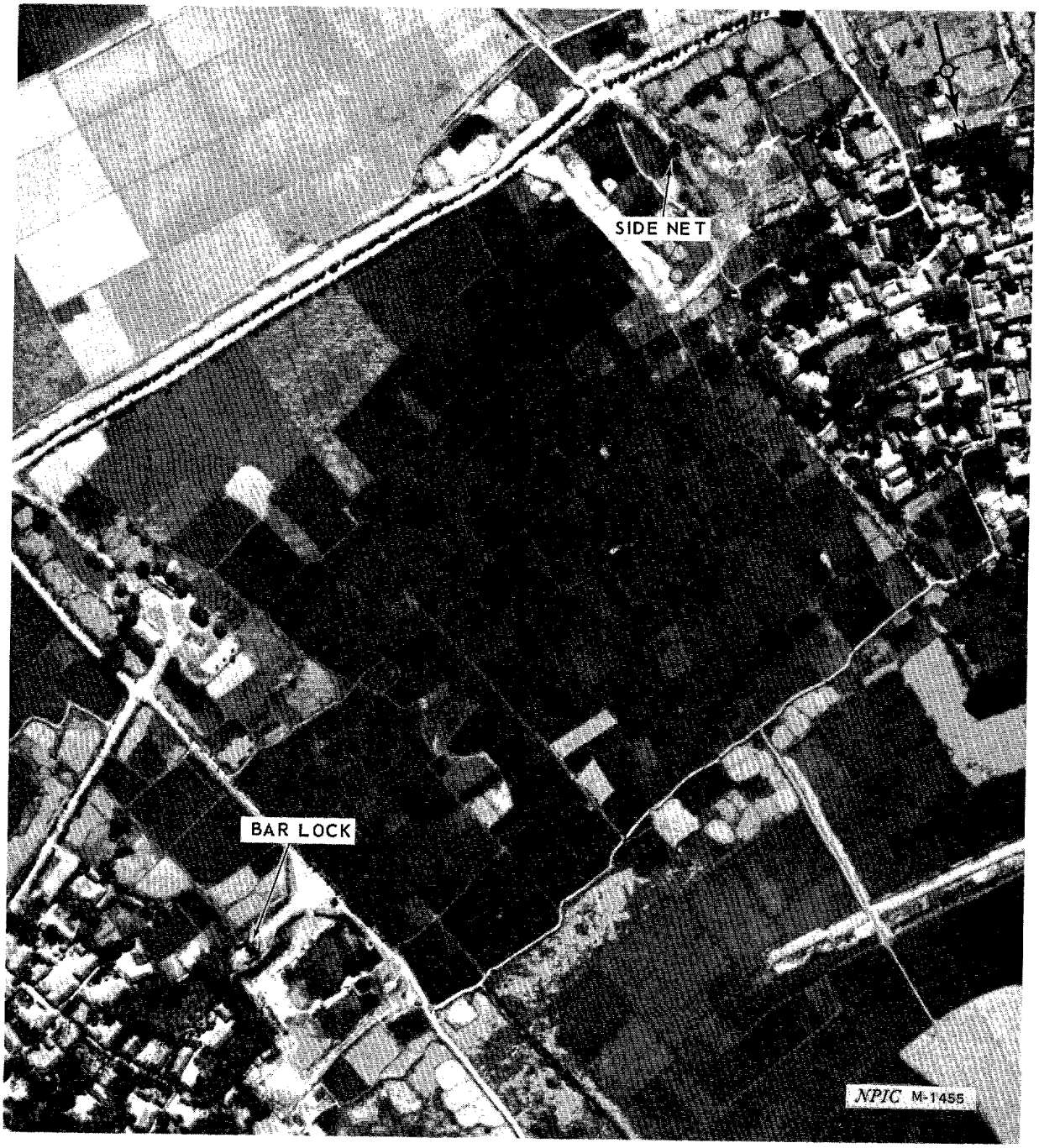
25X1C

THUONG CHE (HONG CAU) AW/GCI FACILITY

XJ063177
UTM COORDINATES

20-57N 106-01E
GEOGRAPHIC COORDINATES



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25X1C

BE NUMBER	WJ943516 UTM COORDINATES	21-15N 105-54E GEOGRAPHIC COORDINATES

NAME: BAC VONG AW/GCI FACILITY

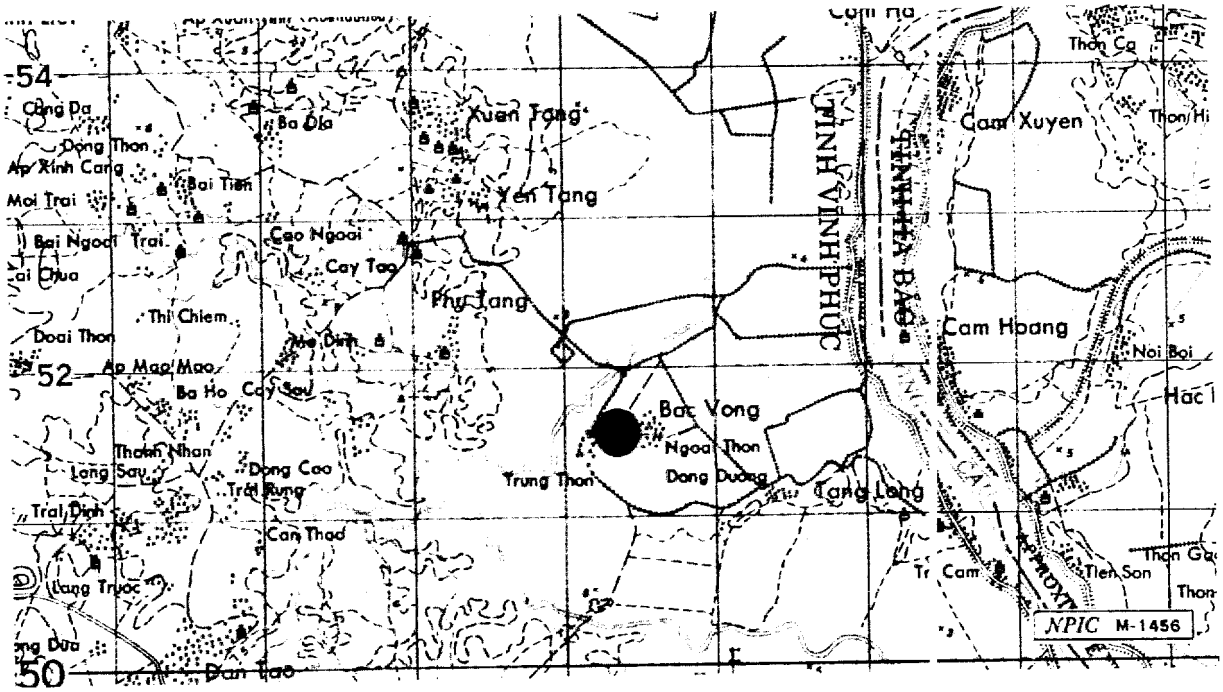
LOCATION: AT BAC VONG, 6.0 NM NE OF PHUC YEN AIRFIELD

DESCRIPTION: FACILITY CONSISTS OF 1 BIG BAR RADAR ON A MOUND AT UTM WJ943517 AND 1 SIDE NET RADAR ON A MOUND AT UTM WJ943514. AT LEAST 4 VAN TRAILERS ARE ALSO OBSERVED.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-I, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



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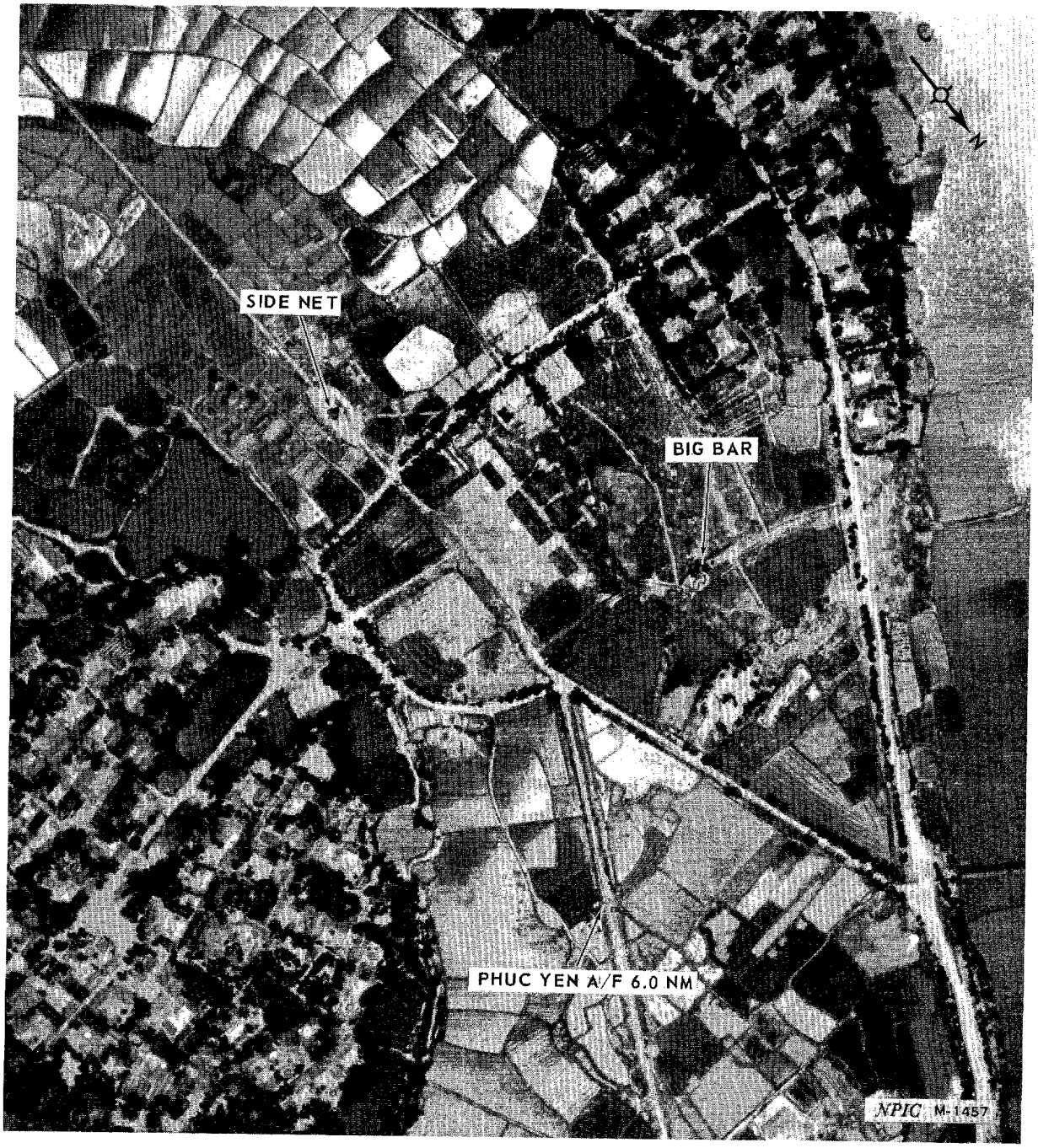
25X1C
SECRET
NPIC/R-32/67
JANUARY 1968

BAC VONG AW/GCI FACILITY

WJ943516
UTM COORDINATES

21-15N 105-54E
GEOGRAPHIC COORDINATES



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25X1C
SECRET

Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5

[redacted]

(INFORMATION ON THIS PAGE IS CONFIDENTIAL NO FOREIGN DISSEM [redacted] 25X1C

BE NUMBER	WJ789249 UTM COORDINATES	21-01N 105-45E GEOGRAPHIC COORDINATES

NAME: NHAN MY AW/GCI FACILITY

LOCATION: 1.0 NM WNW OF NANH MY AND 3.8 NM WEST OF THE HA NOI RAILROAD YARDS.

DESCRIPTION: FACILITY CONSISTS OF A BIG BAR RADAR WITH 2 VAN TRAILERS, 1 VAN TRUCK AND 1 ANTENNA TRANSPORT TRAILER; A ROCK CAKE/STONE CAKE RADAR WITH 2 VAN TRAILERS; AND A MOON FACE RADAR WITH 1 VAN TRUCK.

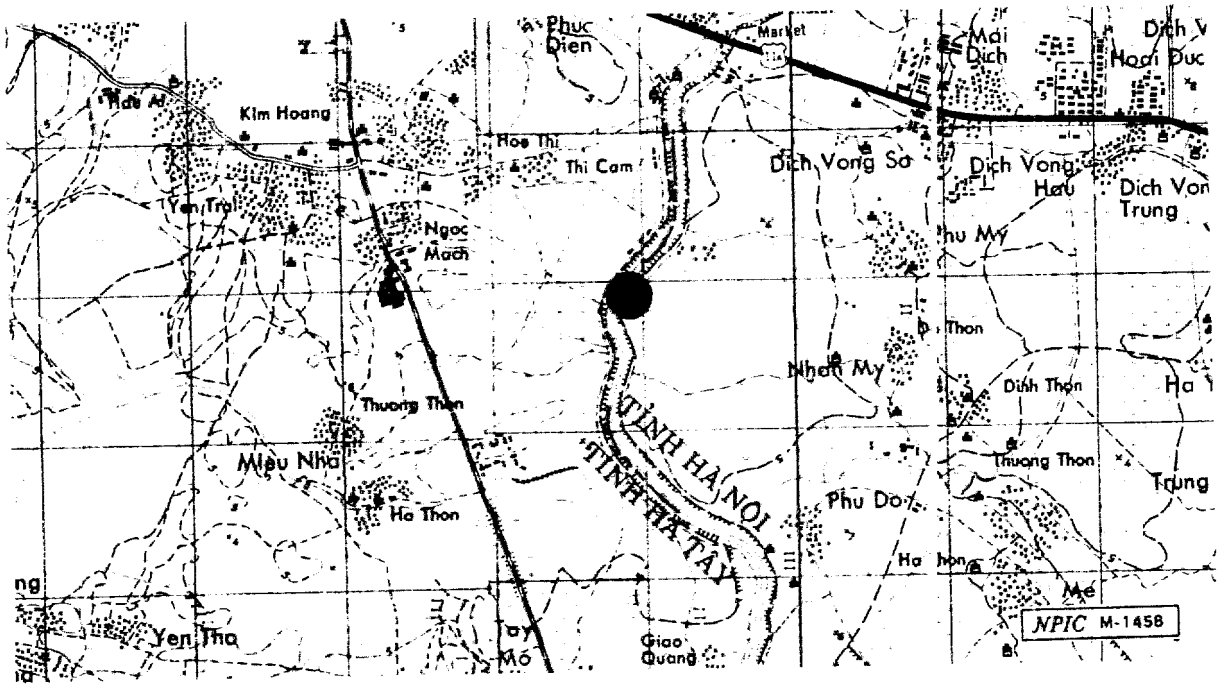
AT LEAST 1 ADDITIONAL VAN TRUCK, 1 TRACKED PRIME MOVER, AND 2 CARGO TRUCKS ARE ALSO IN THE VICINITY.

SEVEN FIRE CAN RADARS AND 6 VAN TRUCKS ARE IMMEDIATELY NORTH AT UTM WJ791253.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-II, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



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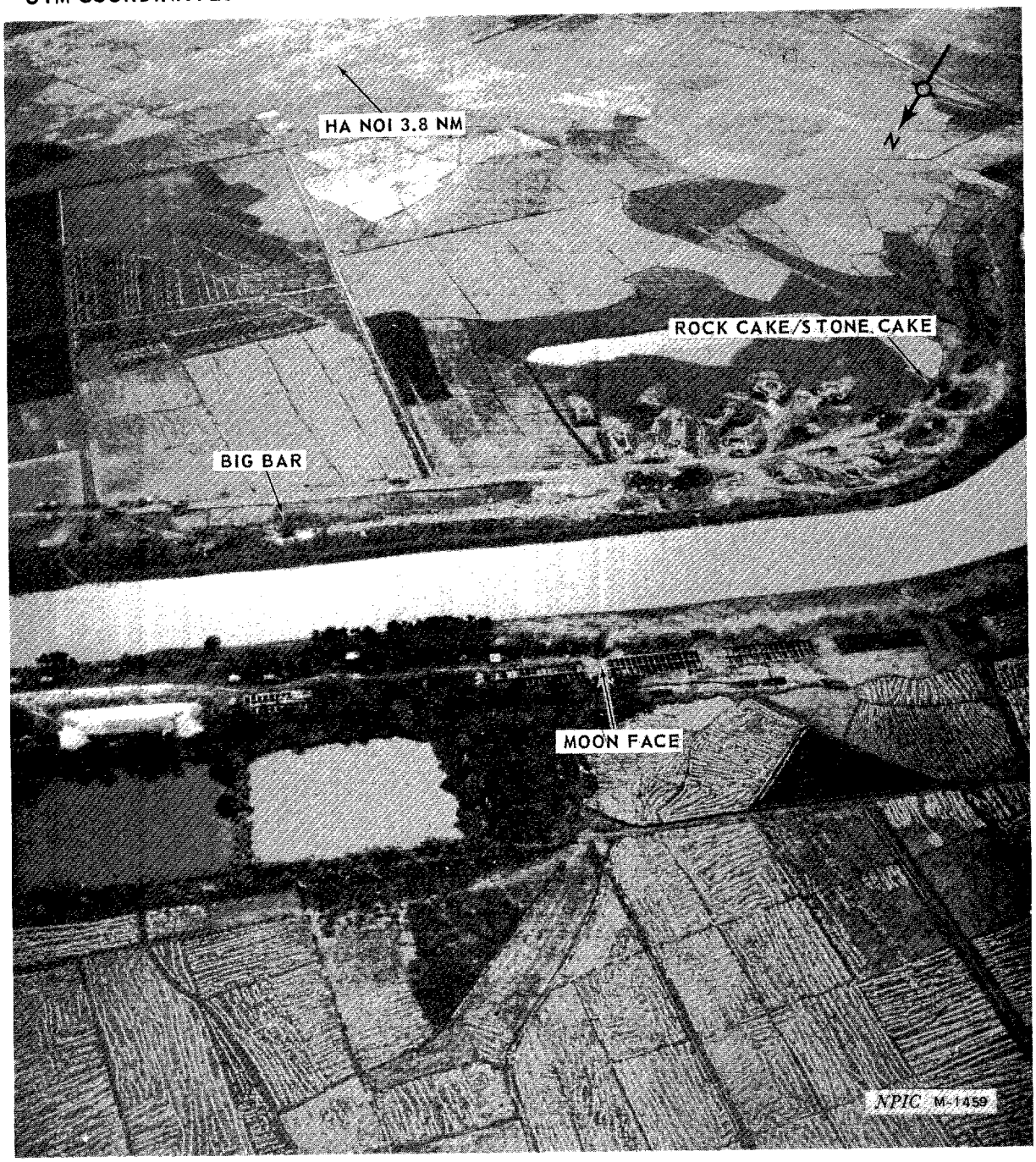
25X1C [redacted] SECRET NPIC/R-32/67

(INFORMATION ON THIS PAGE IS CONFIDENTIAL/NO FOREIGN DISSEM [redacted] 25X1C

NHAN MY AW/GCI FACILITY

WJ789249
UTM COORDINATES

21-01N 105-45E
GEOGRAPHIC COORDINATES



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25X1C SECRET [redacted]

BE NUMBER	XJ007575 UTM COORDINATES	21-19N 105-58E GEOGRAPHIC COORDINATES

NAME: DUC THANG AW/GCI FACILITY

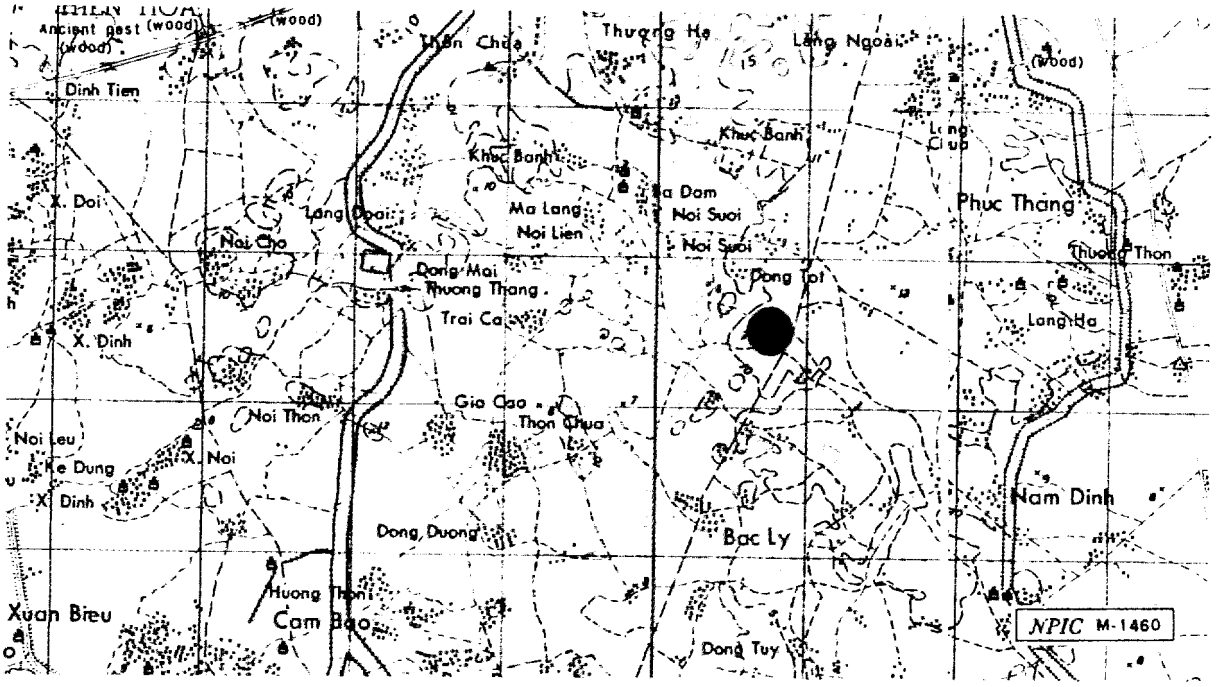
LOCATION: 2.2 NM SSW OF DUC THANG AND 17.8 NM WSW OF KEP AIRFIELD

DESCRIPTION: FACILITY CONSISTS OF A BIG BAR RADAR, 2 VAN TRAILERS, 1 PROBABLE VAN TRUCK, AND 1 ANTENNA TRANSPORT TRAILER.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-I, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11



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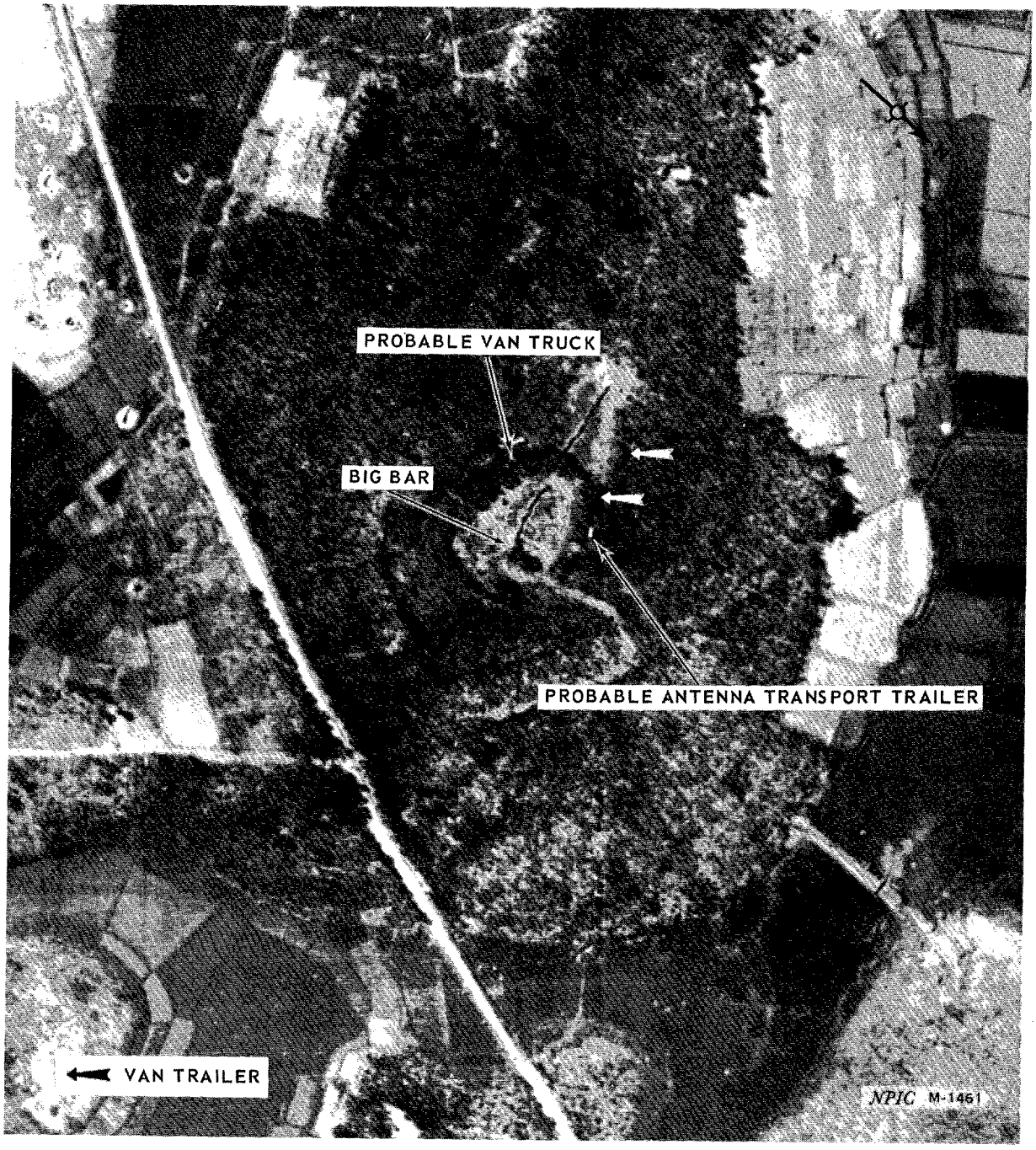
DUC THANG AW/GCI FACILITY

XJ007575
UTM COORDINATES

21-19N 105-58E
GEOGRAPHIC COORDINATES



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BE NUMBER	XH700931 UTM COORDINATES	20-43N 106-37E GEOGRAPHIC COORDINATES

NAME: NGHI DUONG AW/GCI FACILITY

LOCATION: AT NGHI DUONG, 8.6 NM SSW OF HAI PHONG

DESCRIPTION: FACILITY CONSISTS OF 3 AREAS.
AREA A CONTAINS AN UNOCCUPIED RADAR MOUND, 1 OCCUPIED VEHICLE REVETMENT, 3 UNOCCUPIED VEHICLE REVETMENTS, AND 1 REVETTED BUILDING.

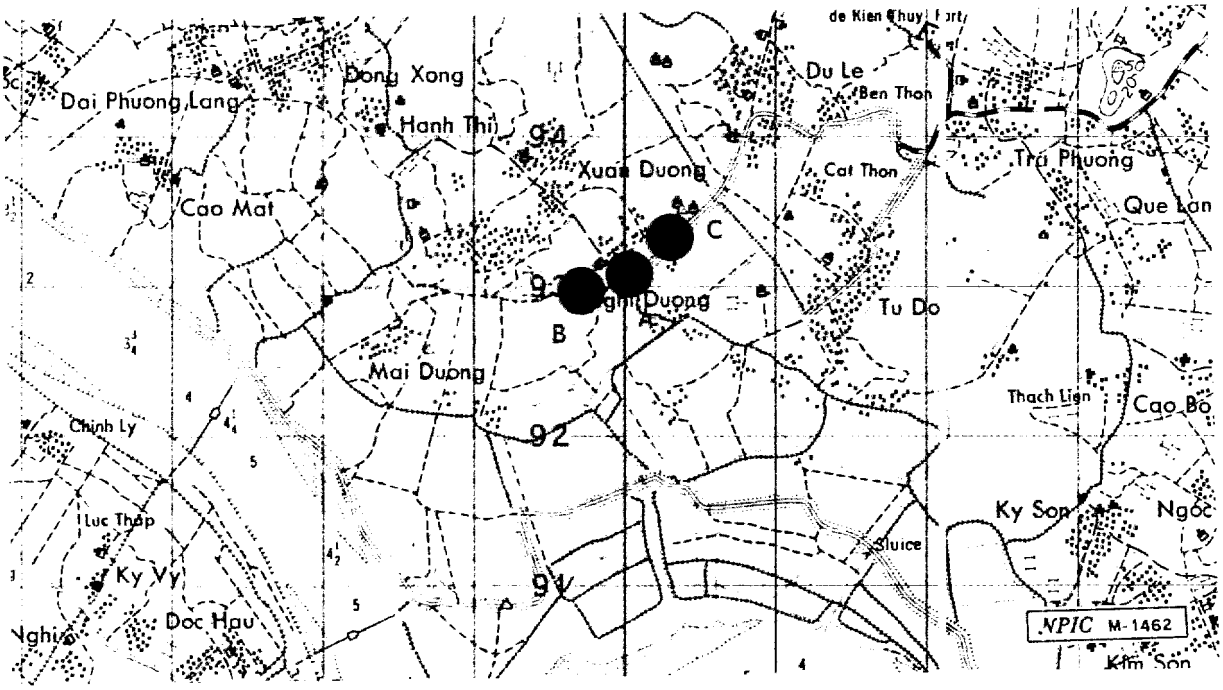
AREA B CONTAINS AN UNOCCUPIED RADAR MOUND, 1 OCCUPIED VEHICLE REVETMENT, AND 1 UNOCCUPIED VEHICLE REVETMENT.

AREA C CONTAINS A PROBABLE VAN TRAILER IN A VEHICLE REVETMENT AND A REVETTED BUILDING.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6350-III, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-16



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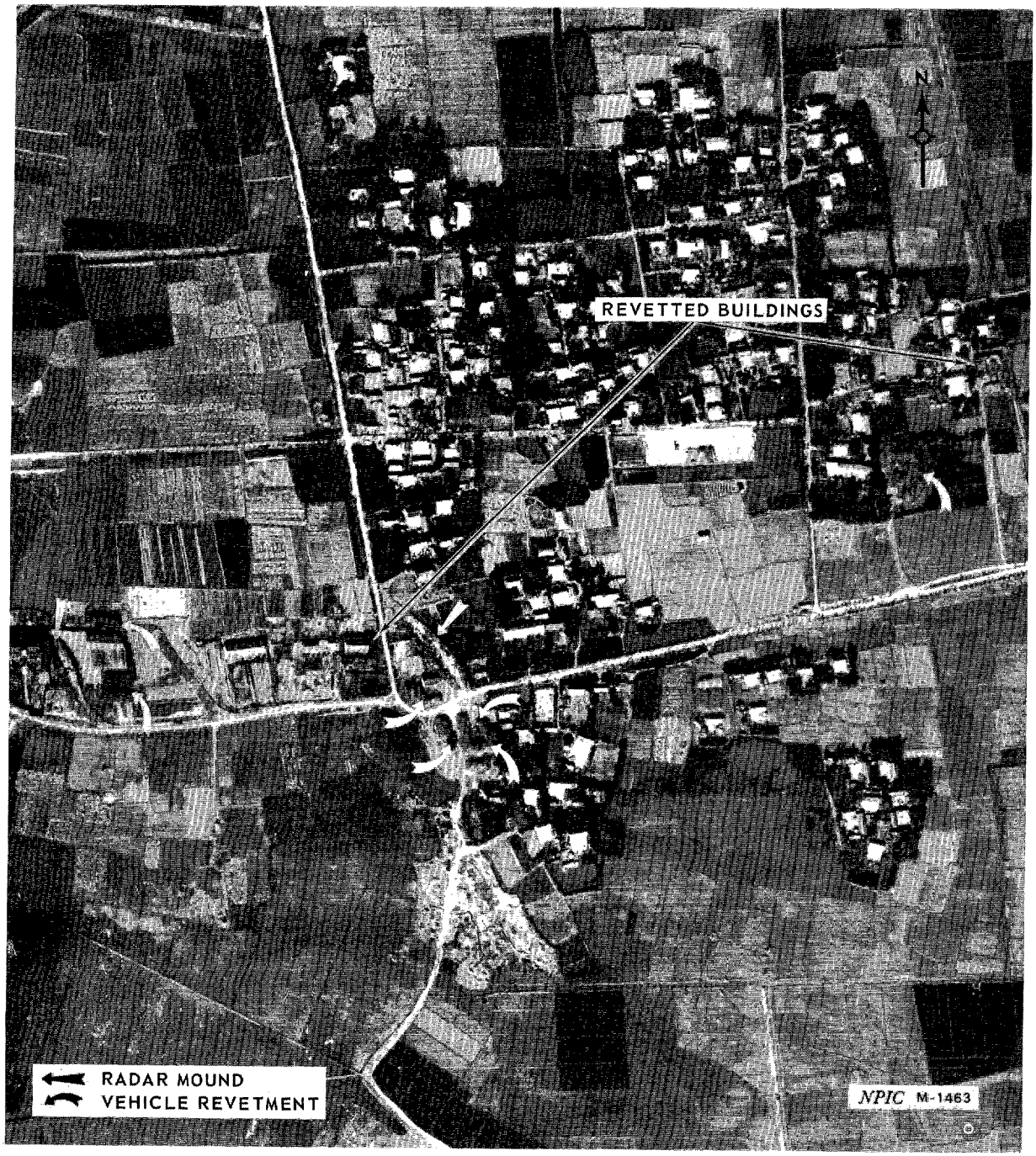
25X1C

NGHI DUONG AW/GCI FACILITY

XH700931
UTM COORDINATES

20-43N 106-37E
GEOGRAPHIC COORDINATES



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JANUARY 1968

CATEGORY B

Air Search

Most North Vietnamese air search radar sites consist of 2 vehicle revetments and a hut or shelter. When the site is occupied, a radar (usually FLAT FACE or KNIFE REST) will be in one revetment and a generator will be in the other revetment.

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3	Hanoi Bac Mai AF	B-6, 7 (May 67)
4	Bai Thuong	B-8, 9 (May 67)
5	Vinh Son	B-10, 11 (May 67)
6	Phu Tho	B-12, 13 (May 67)
7	Ha Noi (Duc Noi)	B-14, 15 (May 67)
8	Ha Noi Gia Lam	B-16, 17 (May 67)
9	Dong Hoi	B-18, 19 (May 67)
10	Badon	B-20, 21 (May 67)
11	Hai Phong	B-22, 23 (May 67)
12	Bach Long Vi	B-24, 25 (May 67)
13	Van Nham	B-26, 27 (May 67)
14	My Duc	B-28, 29 (May 67)
15	Tien Yen	B-30, 31 (May 67)
16	Hoa Binh	B-32, 33 (May 67)
17	Thanh An	B-34, 35 (May 67)
18	Cua Lo	B-36, 37 (May 67)
19	Dong Thap (Yen Vinh)	B-38, 39 (May 67)
20	Phuc Yen SE Noi Bai	B-40, 41 (May 67)
21	Xom Phu Thinh	B-42, 43 (Jun 67)
22	Quang Khe	B-44, 45 (Jul 67)

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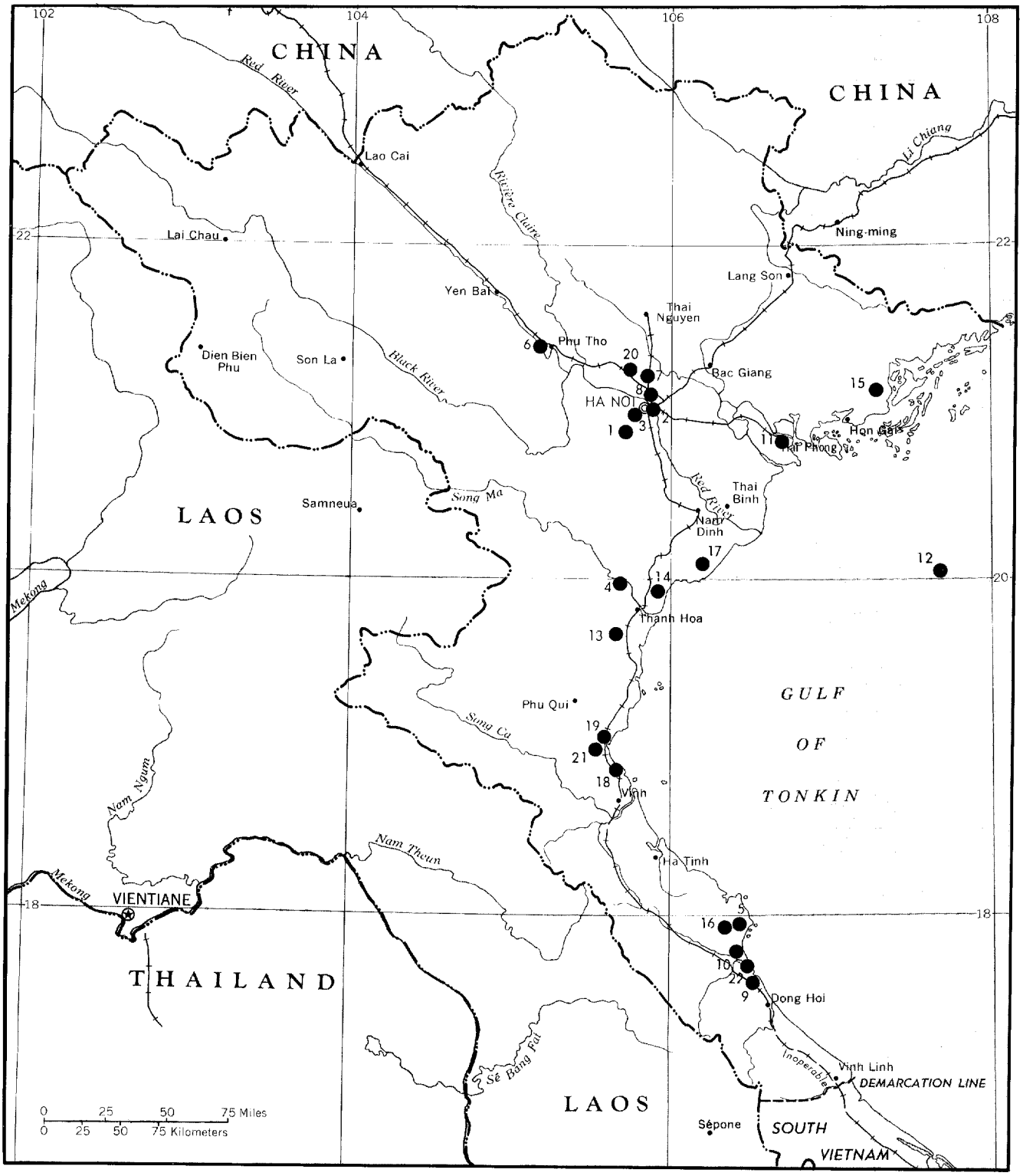
CATEGORY B

AIR SEARCH



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CATEGORY C

Surface Search

Prior to the beginning of the US air strikes in 1965, the North Vietnamese had deployed CROSS SLOT radars on high ground along the coast and on offshore islands for a combined air search and suface search capability. These sites were subjected to air strikes and are no longer in operation. It is probable that smaller shipboard radars have since been installed along the coast. These have not been identified on photography, probably due to the relatively small size of this equipment and the use of camouflage.

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Surface Search

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1*	Vinh Son	B-10, 11 (May 67)
2*	Bach Long Vi	B-24, 25 (May 67)
3*	Van Nham	B-26, 27 (May 67)
4*	My Duc	B-28, 29 (May 67)
5*	Cua Lo	B-36, 37 (May 67)
6	Long Chau	C-2, 3 (Jul 67)

*These CROSS SLOT radar sites are reported in Category B and have an additional surface search capability.

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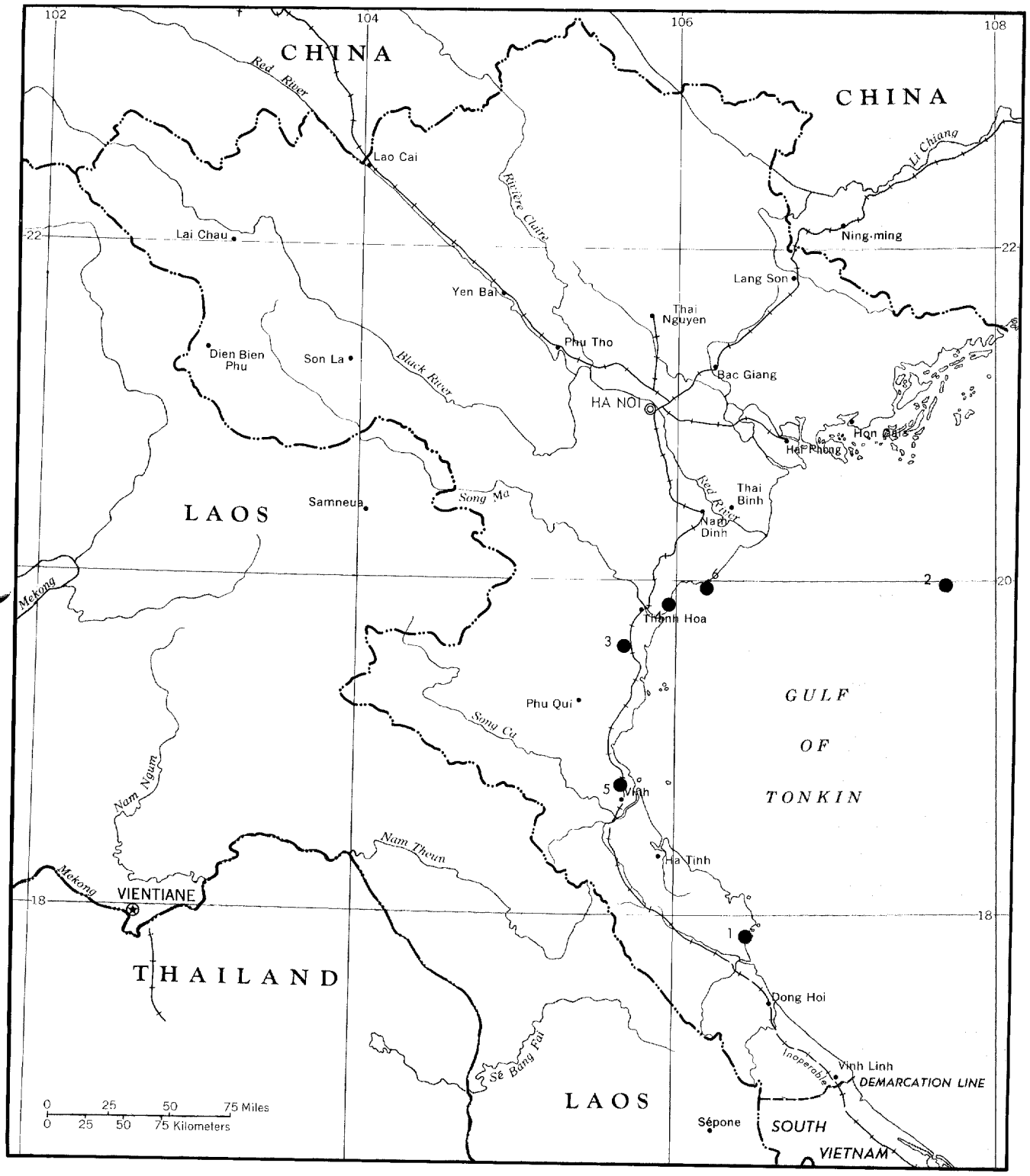
CATEGORY C

SURFACE SEARCH



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NPIC/R-32/67
SAMOTHO 1966

[redacted]

CATEGORY D

Ground Controlled Approach

Soviet LONG EYE and HOME TALK ground controlled approach (GCA) equipment has been identified at North Vietnamese airfields. This equipment is normally emplaced adjacent to the runway.

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25X1C [redacted]

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Ground Controlled Approach

Map Key	Name	Effective Page
1	Hanoi Bac Mai AB	D-2, 3 (May 67)

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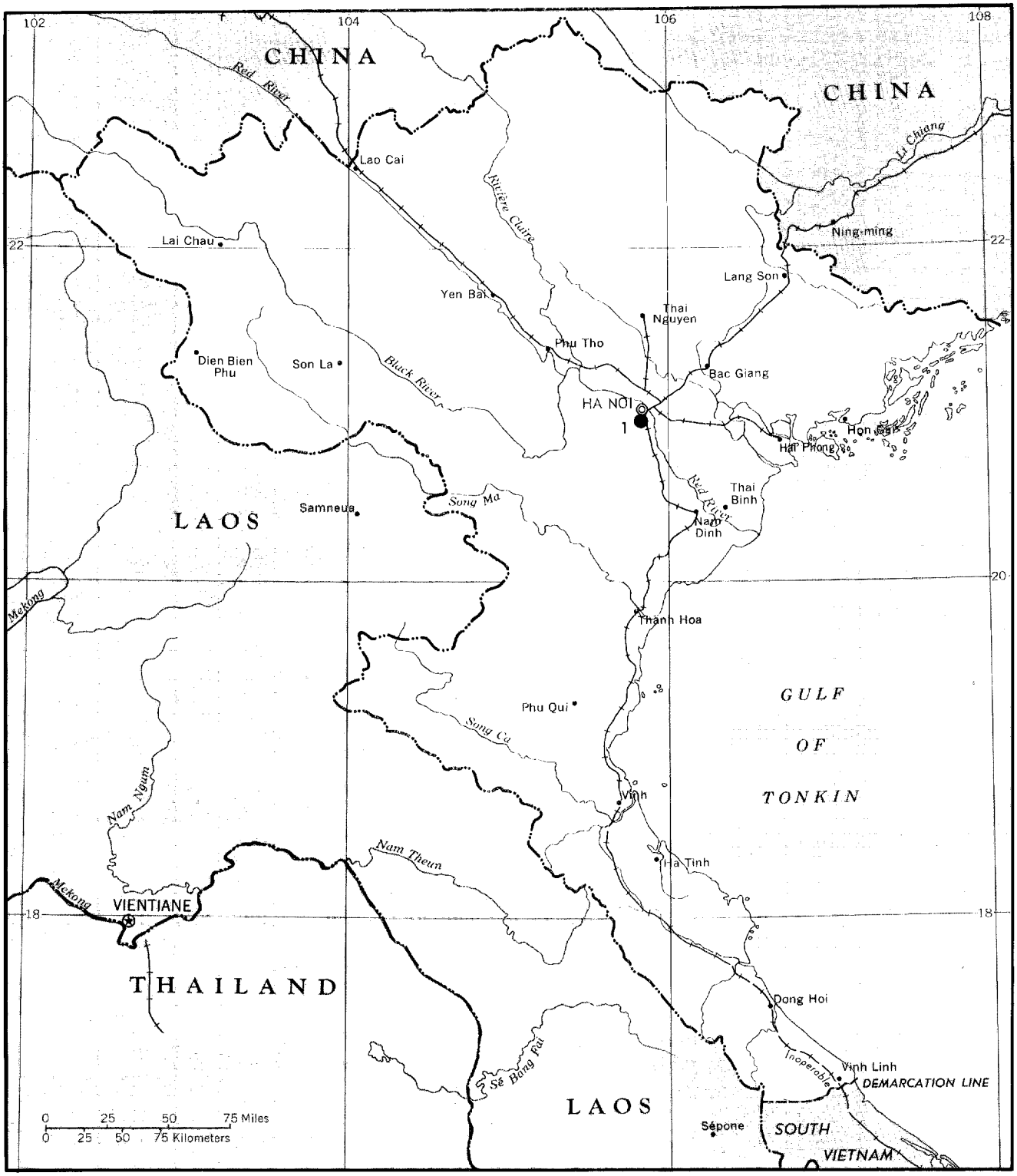
CATEGORY D
GROUND CONTROLLED APPROACH



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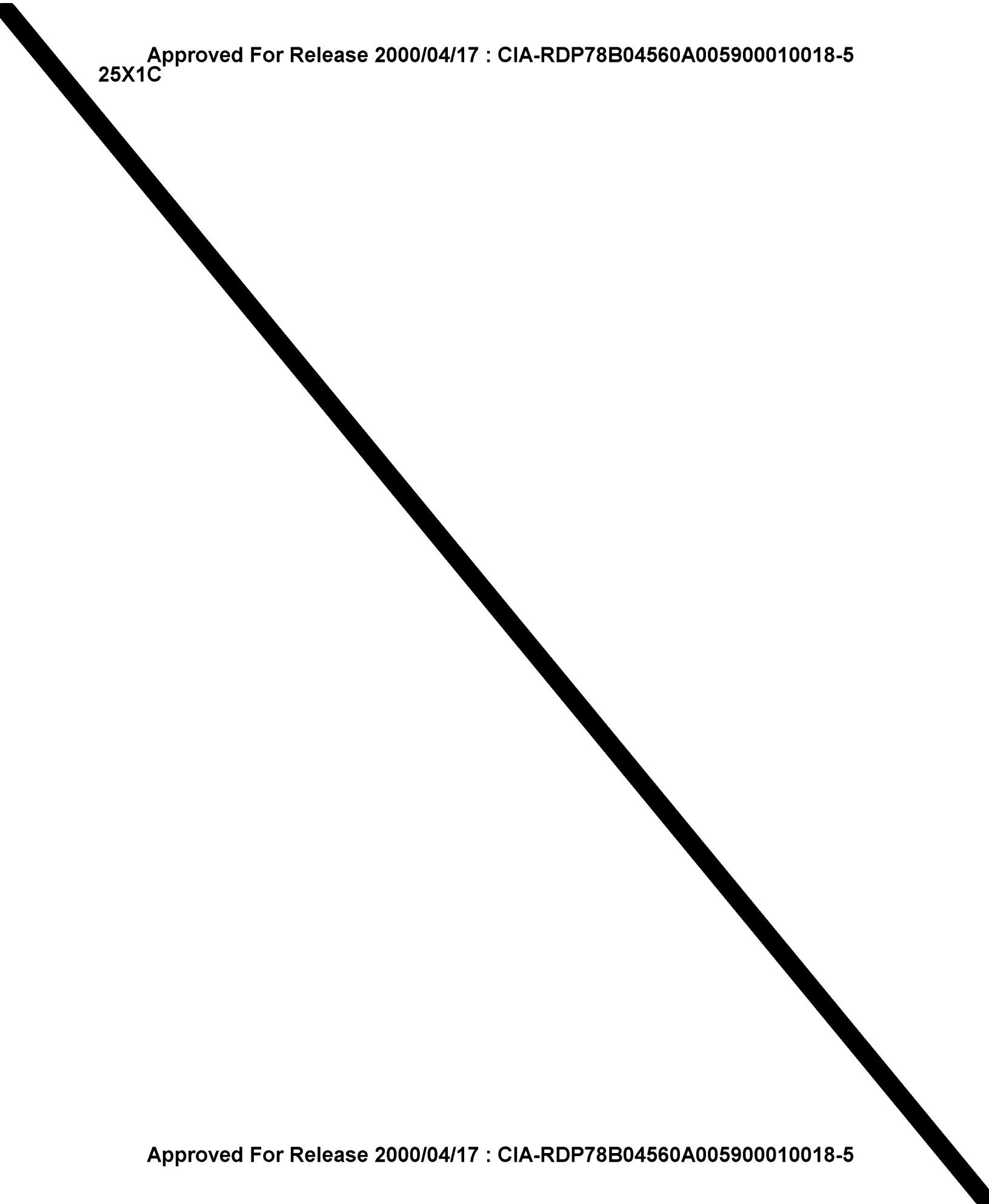

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NOTICE

This is the sixth in a series of updated and supplementary items to be inserted by page number in NPIC/R-32/67, Southeast Asia Activity Report, Selected Radar Sites, North Vietnam. The effective date of each page is printed in the upper right-hand corner under the NPIC report number and in the table of contents.

Pages which have been superceded and are no longer required should be destroyed in accordance with applicable security regulations.

25X1C The overall classification of this report has been changed to SECRET/No Foreign Dissem however, individual pages

25X1C which can be classified CONFIDENTIAL or CONFIDENTIAL/No Foreign Dissem will be so identified.

This report supercedes NPIC/R-167/67, which has been discontinued.

Starting with this group of items, a number will be added to the report number; i.e., NPIC/R-32/67-6. The number six indicates this is the sixth issuance of items for this report.

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6	17	68	NPIC		4	45							
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9	16	68	CRS/DLB		1	41							
11	6	68	NPIC		1	40							
3	13	69	CRS/D-		1	39							
4	21	69	CRS		1	38							
1	21	70	Dept. 13 20		13	25							
10	17	78	Dept ~~20~~ Copies		~~25~~		W	K	G				
8	20	23	~~Dept.~~ 6 Copies		6	19							

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TITLE NPIC/R-32/67-Group 6 April 1968 SEC. CLASS. [redacted] LOCATION 405 FOV X

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Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
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[redacted]

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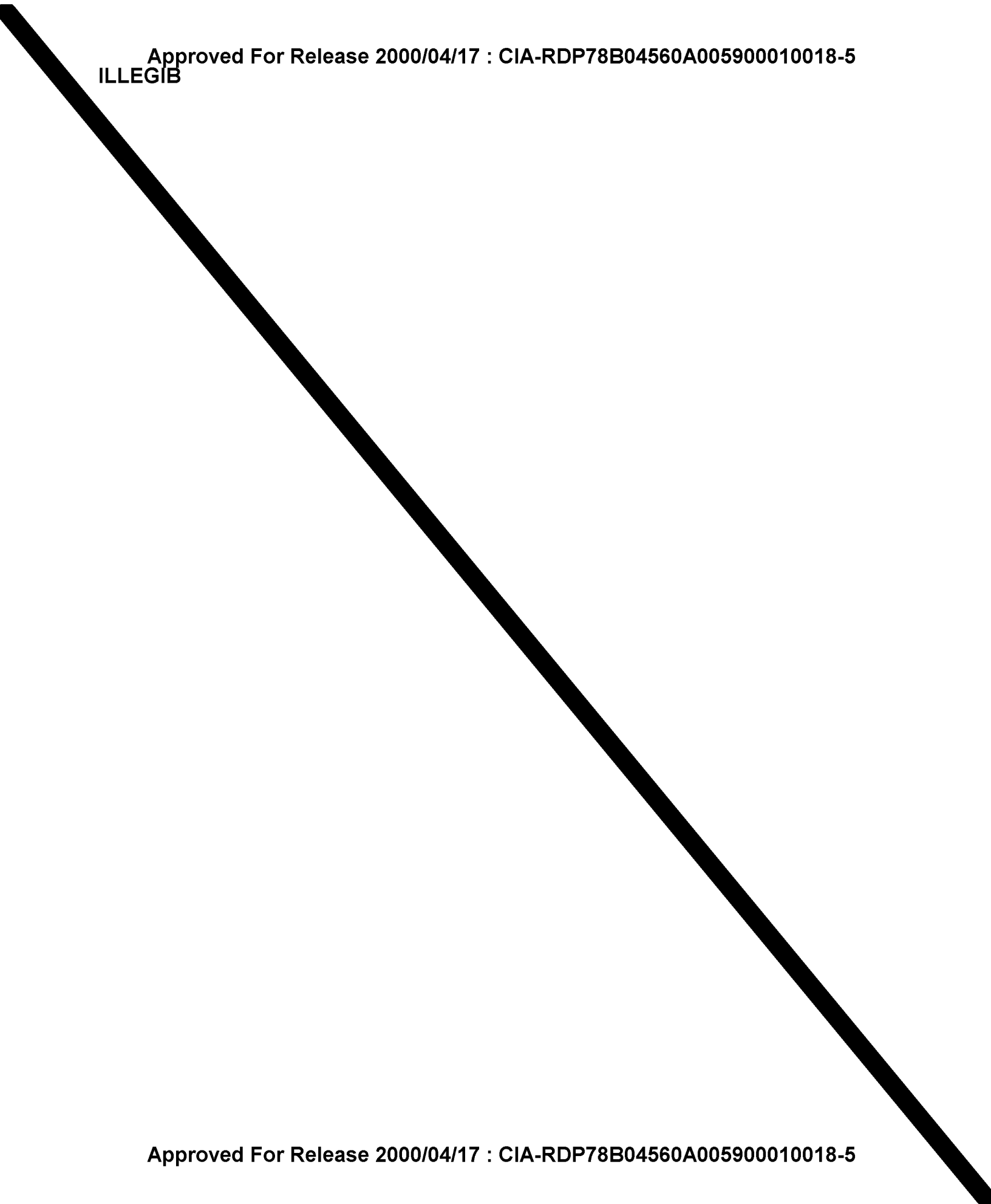

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25X1C SECRET
Approved For [redacted]005900010018-5

CATEGORY A

Air Warning/Ground Controlled Intercept

The North Vietnamese employ a single TOKEN-type radar (usually BAR LOCK or BIG BAR) and a single heightfinder (normally SIDE NET or ROCK CAKE/STONE CAKE) for air warning/ground controlled intercept (AW/GCI). This is not in accordance with the Soviet practice of providing several similar back-up radars at AW/GCI sites.

The North Vietnamese usually attempt to conceal their GCI sites to protect them from US air strikes; however, well defined sites, such as Thuy Ha (page A-22), have also been constructed.

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[redacted]

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Air Warning/Ground Control Intercept

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2	Hanoi Bac Mai AF	A-4, 5 (May 67)
3	Dong Lai (Phuc Yen)	A-6, 7 (May 67)
4	Ha Noi (Tang My)	A-8, 9 (May 67)
5	Thuong Che	A-10, 11 (Jan 68) (S)
6	Phuc Yen ENE (Duc Hau)	A-12, 13 (Jun 67)
7	Nui Vien Nam	A-14, 15 (Jul 67)
8	Ha Dong	A-16, 17 (Jun 67)
9	Xom Phuong	A-18, 19 (May 67)
10	Kep	A-20, 21 (May 67)
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12	Son Tay (Chieu Dong)	A-24, 25 (Jun 67)
13	Quang Mo	A-26, 27 (Jun, May 67)
14	Xom Ngoai	A-28, 29 (Jan 68) (S)
15	Ngan Son	A-30, 31 (Jan 68) (S)
16	Hai Phong	A-32, 33 (Jan 68) (S)
17	Xom Lom (Moc Chau)	A-34, 35 (Oct 67)
18	Dong Ngoai	A-36, 37 (Jan 68) (S)
19	Kep (Nguyen Thon)	A-38, 39 (Jan 68) (S)
20	Hoa Lac	A-40, 41 (Nov 67)
21	Thuong Che (Hong Cau)	A-42, 43 (Jan 68) (S)
22	Bac Vong	A-44, 45 (Jan 68) (S)
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24	Duc Thang	A-48, 49 (Jan 68) (S)
25	Nghi Duong	A-50, 51 (Jan 68) (S)
26	Duc Tu	A-52, 53 (Apr 68) (S)
27	Tinh Thon	A-54, 55 (Apr 68)
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29	Chuyen My	A-58, 59 (Apr 68)
30	Vinh Mo	A-60, 61 (Apr 68) (S)

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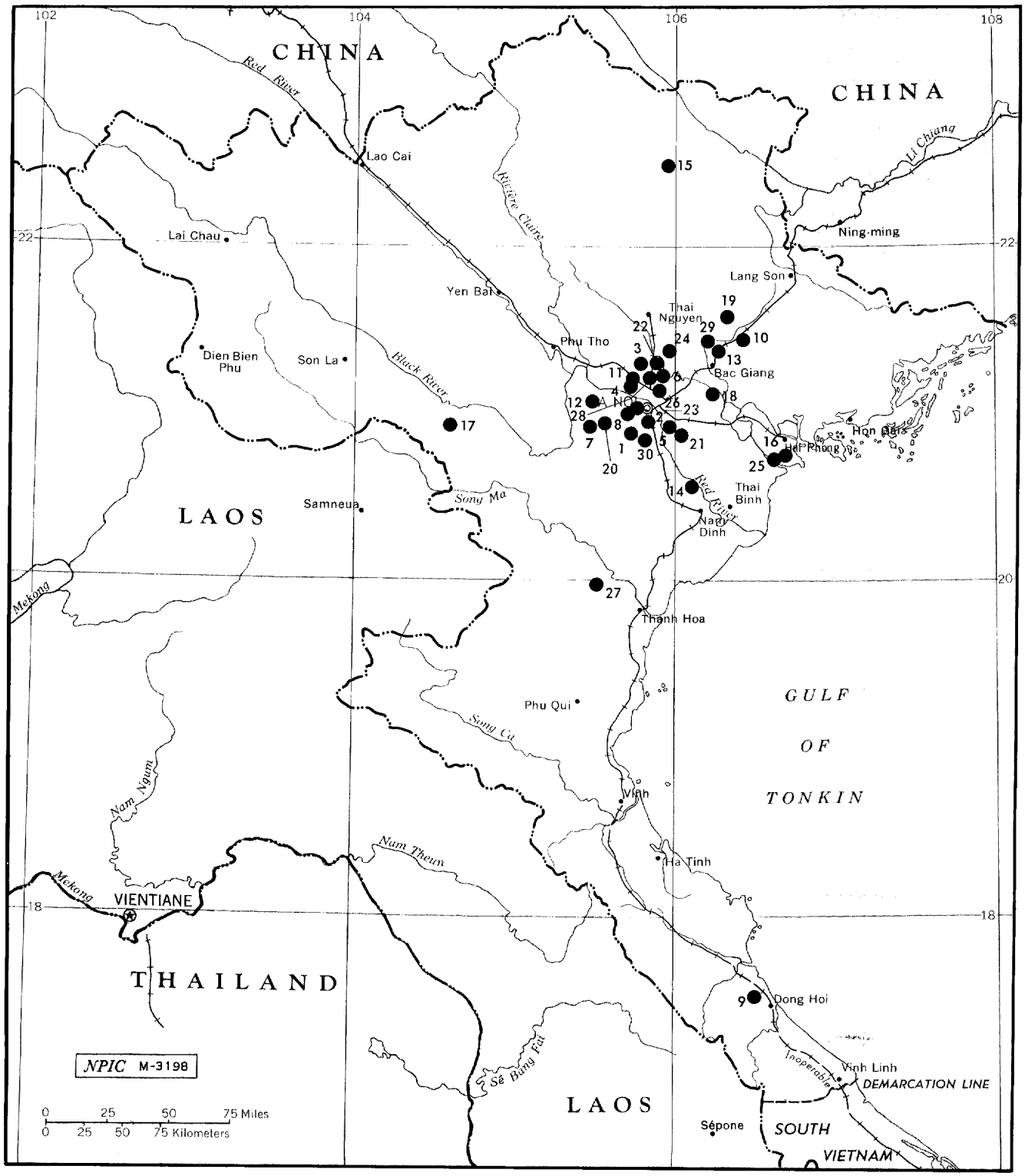
CATEGORY A

AIR WARNING/GROUND CONTROLLED INTERCEPT



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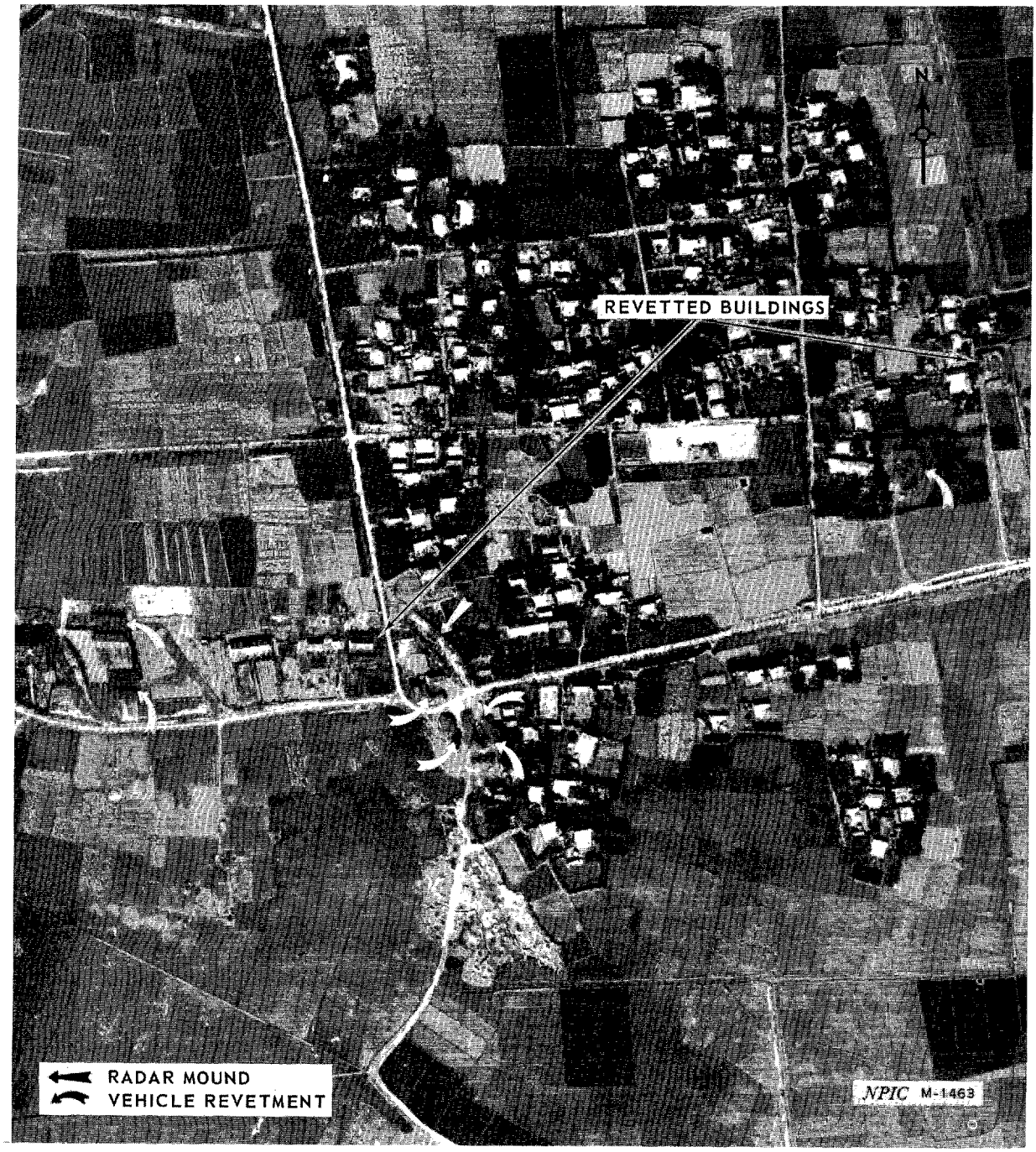
SECRET

NGHI DUONG AW/GCI FACILITY

XH700931
UTM COORDINATES

20-43N 106-37E
GEOGRAPHIC COORDINATES



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25X1C SECRET NPIC/R-32/67-6
ANNEX 1968

BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES
	WJ940356	21-01N 105-54E

NAME: DUC TU AW/GCI FACILITY

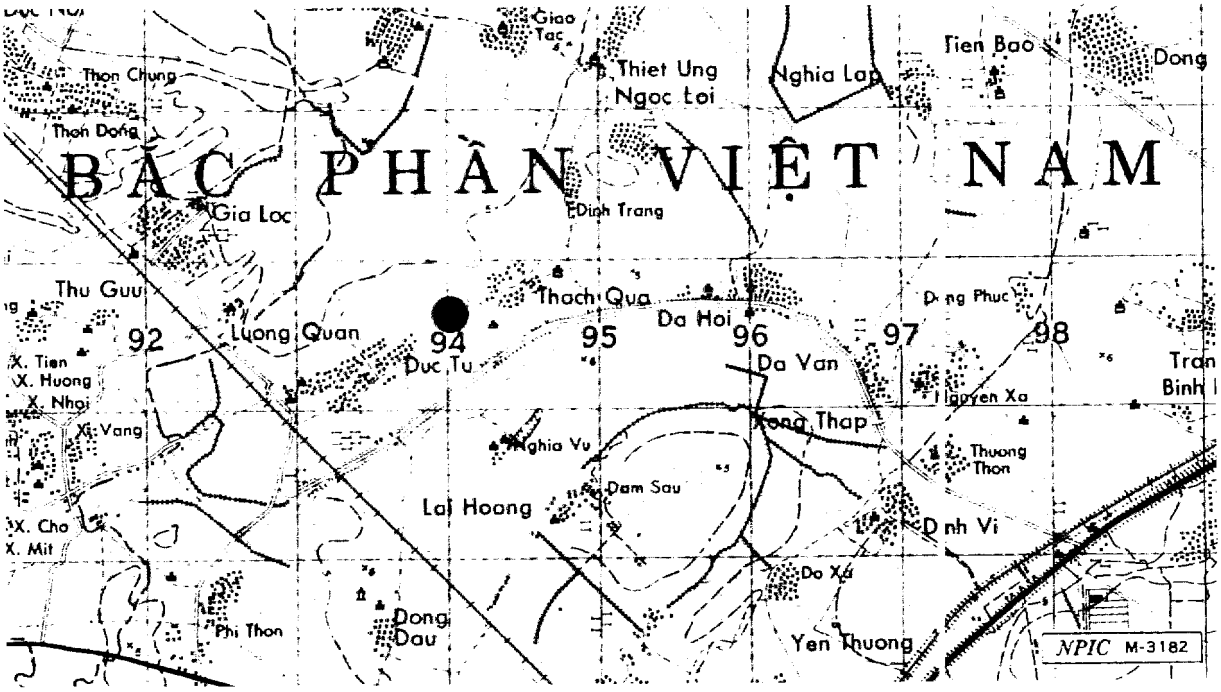
LOCATION: IN DUC TU, 6.7 NM NNE OF HA NOI RAILROAD YARD

DESCRIPTION: FACILITY CONSISTS OF A PROBABLE BAR LOCK RADAR AND A PROBABLE SIDE NET RADAR, EACH ON A SEPARATE MOUND.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-II, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)



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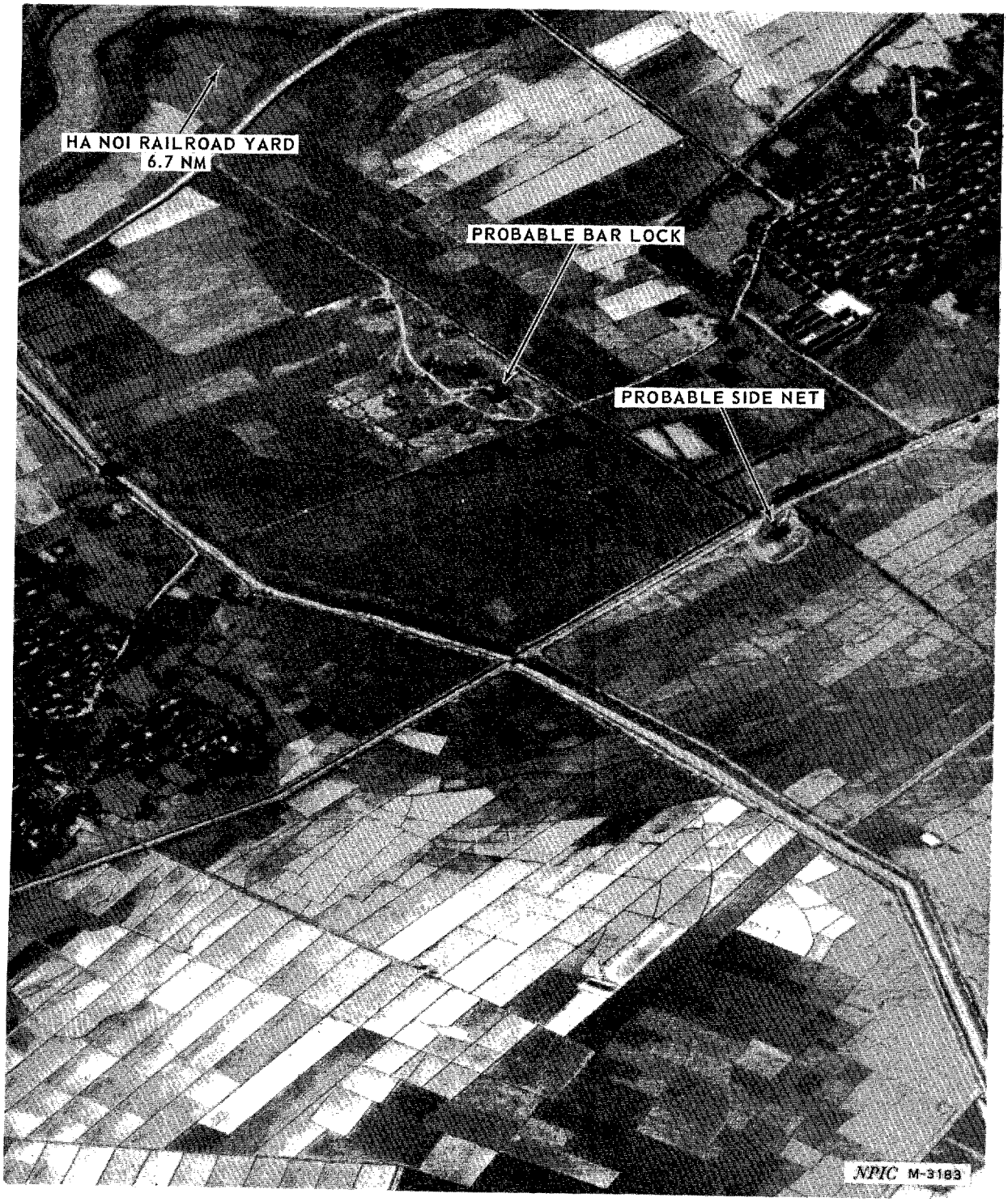
25X1C SECRET

25X1C SECRET
Approved For [redacted] 005900010018-5

DUC TU AW/GCI FACILITY

WJ940356
UTM COORDINATES

21-07N 105-54E
GEOGRAPHIC COORDINATES



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(INFORMATION ON THIS PAGE IS CONFIDENTIAL)

BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES
	J1532033	19-55 N 105-30E

NAME: TINH THON AW/GCI FACILITY

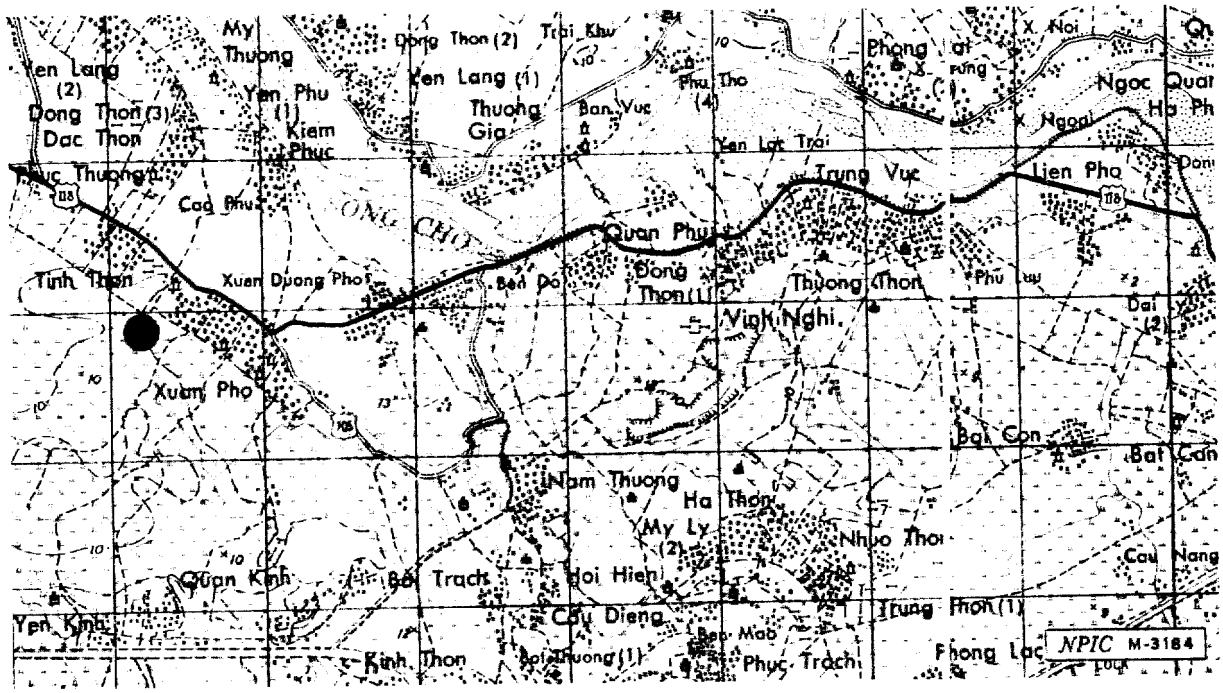
LOCATION: AT TINH THON, 2.7 NM NE OF BAI THUONG AIRFIELD

DESCRIPTION: FACILITY CONSISTS OF 2 UNOCCUPIED RADAR MOUNDS, 6 VEHICLE REVETMENTS, 2 REVETTED BUILDINGS, AND 2 STORAGE REVETMENTS. AT LEAST 4 VAN TRAILERS AND 2 TRUCKS ARE OBSERVED.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6148-IV, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NE 48-3, 1ST ED, JUN 65 (U)



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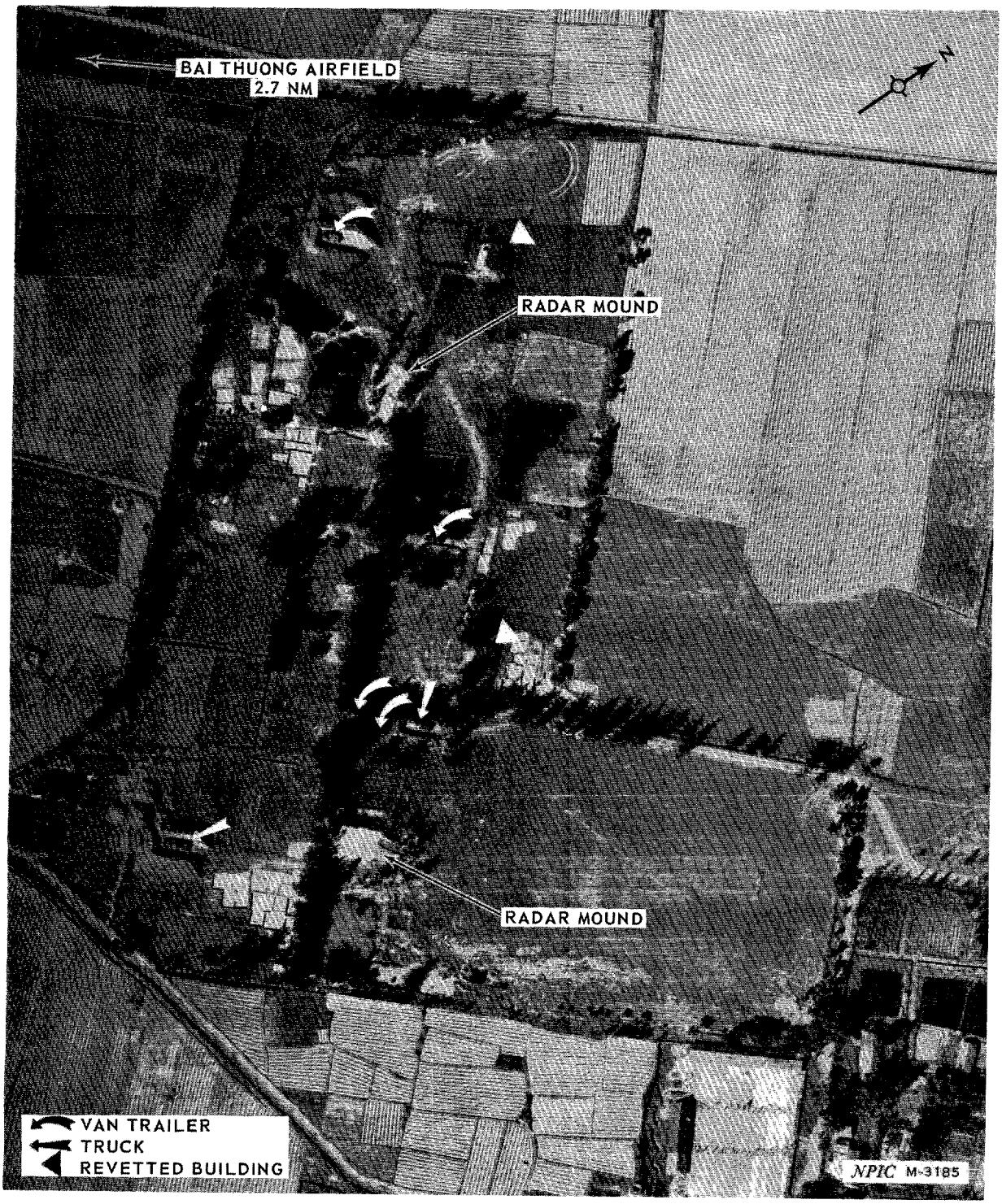
TINH THON AW/GCI FACILITY

WH532039
UTM COORDINATES

19-55N 105-30E
GEOGRAPHIC COORDINATES



BE NUMBER	WJ323408 UTM COORDINATES	21-10 N 105-53E GEOGRAPHIC COORDINATES

NAME: DUONG YEN AW/GCI FACILITY

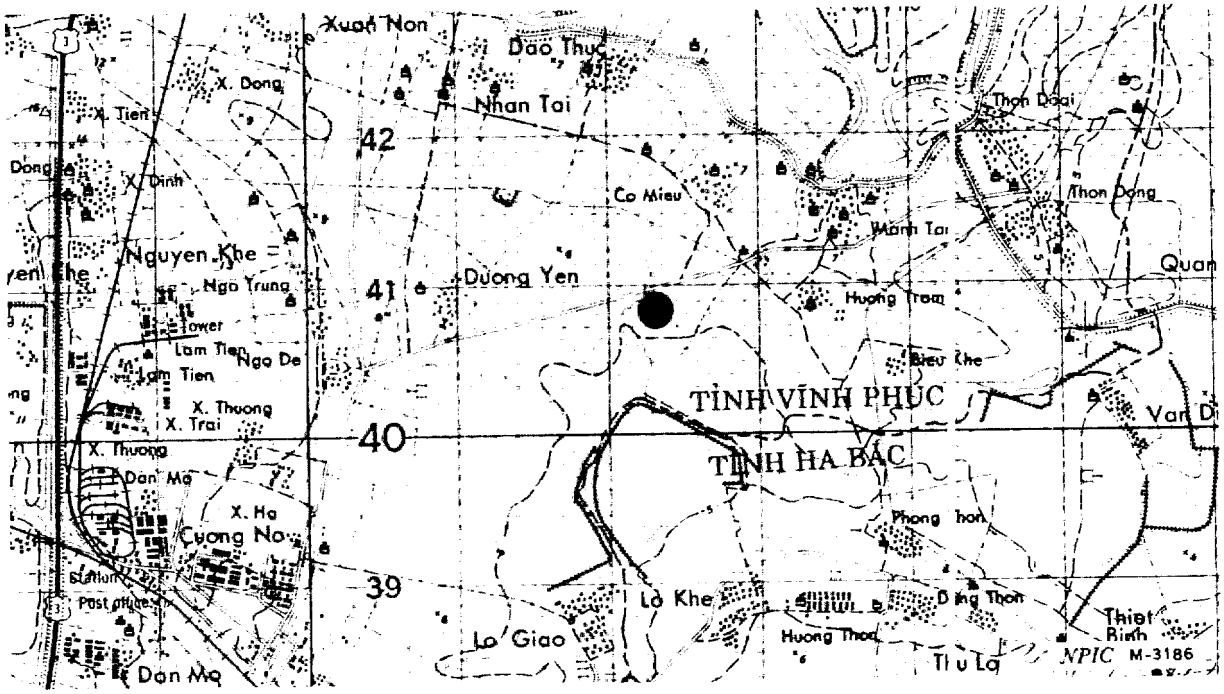
LOCATION: 0.8 NM EAST OF DUONG YEN, 7.8 NM NORTH OF HANOI/GIA LAM AIRFIELD

DESCRIPTION: FACILITY CONSISTS OF 2 UNOCCUPIED RADAR MOUNDS, 6 UNOCCUPIED VEHICLE REVETMENTS, AND A REVETTED STORAGE AREA.

25X1D

PHOTO REFERENCES: [redacted]

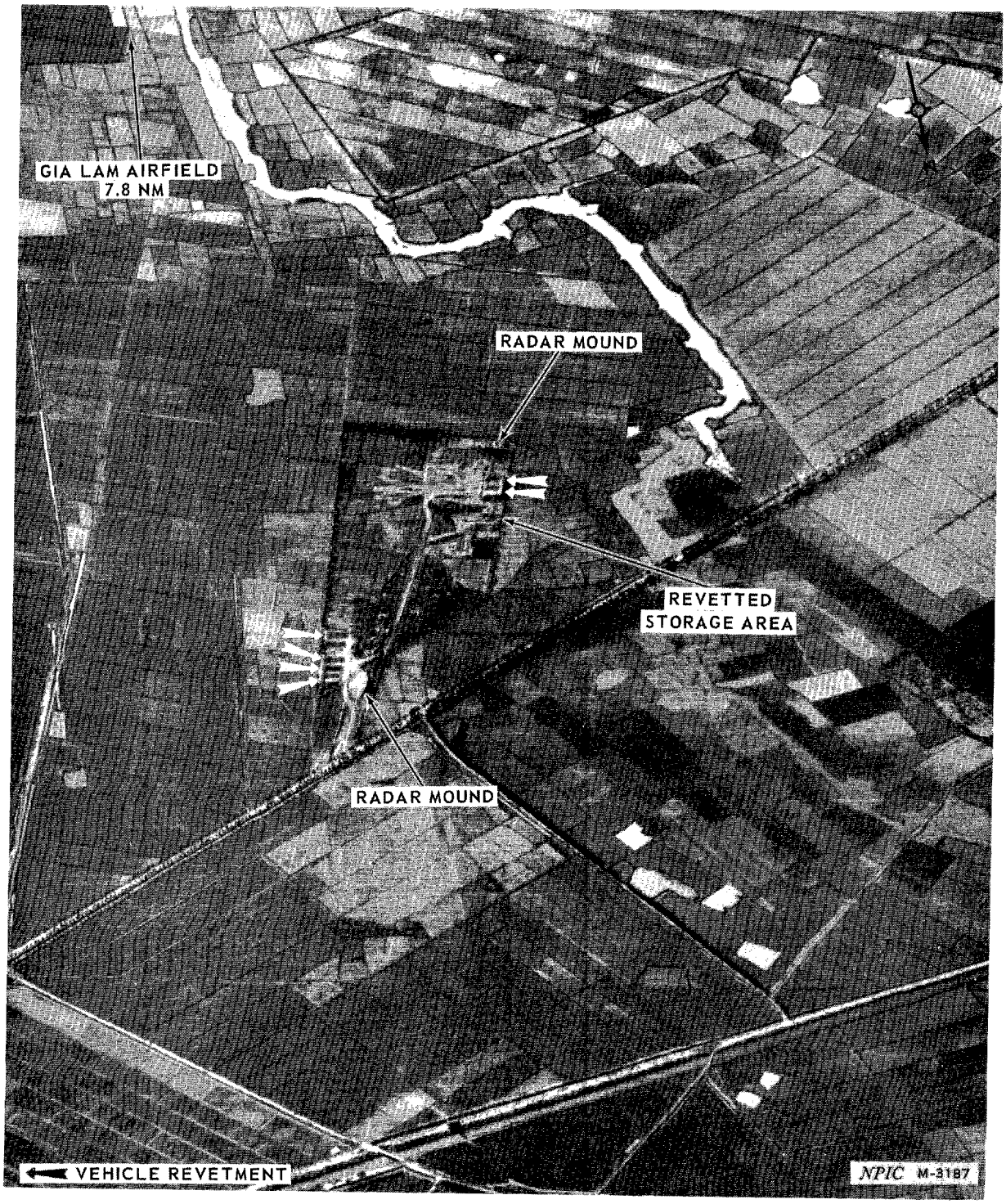
MAP REFERENCES: AMS SERIES L7014, SHEET 6151-II, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)



DUONG YEN AW/GCI FACILITY

WJ923408
UTM COORDINATES

21-10N 105-53E
GEOGRAPHIC COORDINATES



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INFORMATION ON THIS PAGE IS CONFIDENTIAL NO FOREIGN DISSEM [redacted] 25X1C

BE NUMBER	XJ254626 UTM COORDINATES	21-21 N 106-12E GEOGRAPHIC COORDINATES

NAME: CHUYEN MY AW/GCI FACILITY

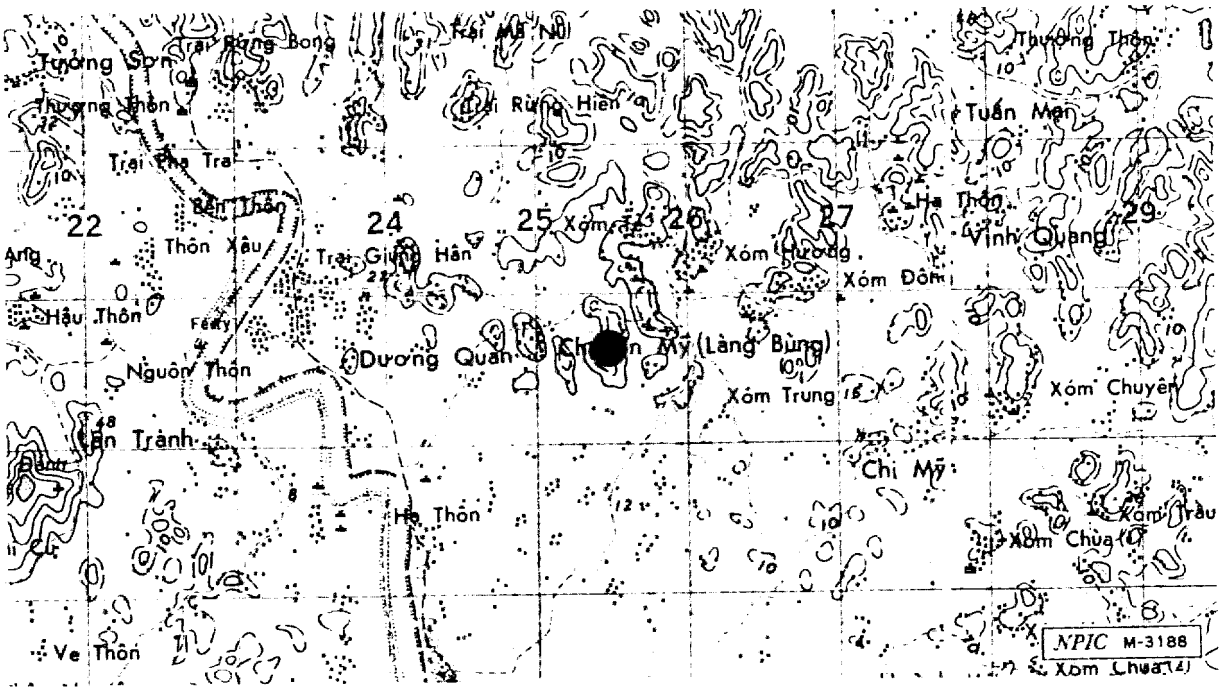
LOCATION: AT CHUYEN MY, 3.9 NM SW OF KEP AIRFIELD

DESCRIPTION: FACILITY CONSISTS OF A BIG BAR RADAR WITH 2 REVETTED VAN TRAILERS, 1 REVETTED ANTENNA TRANSPORT TRAILER, AND 1 REVETTED VAN TRUCK WITH AN UNIDENTIFIED MAST.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6251-IV, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)



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25X1C SECRET

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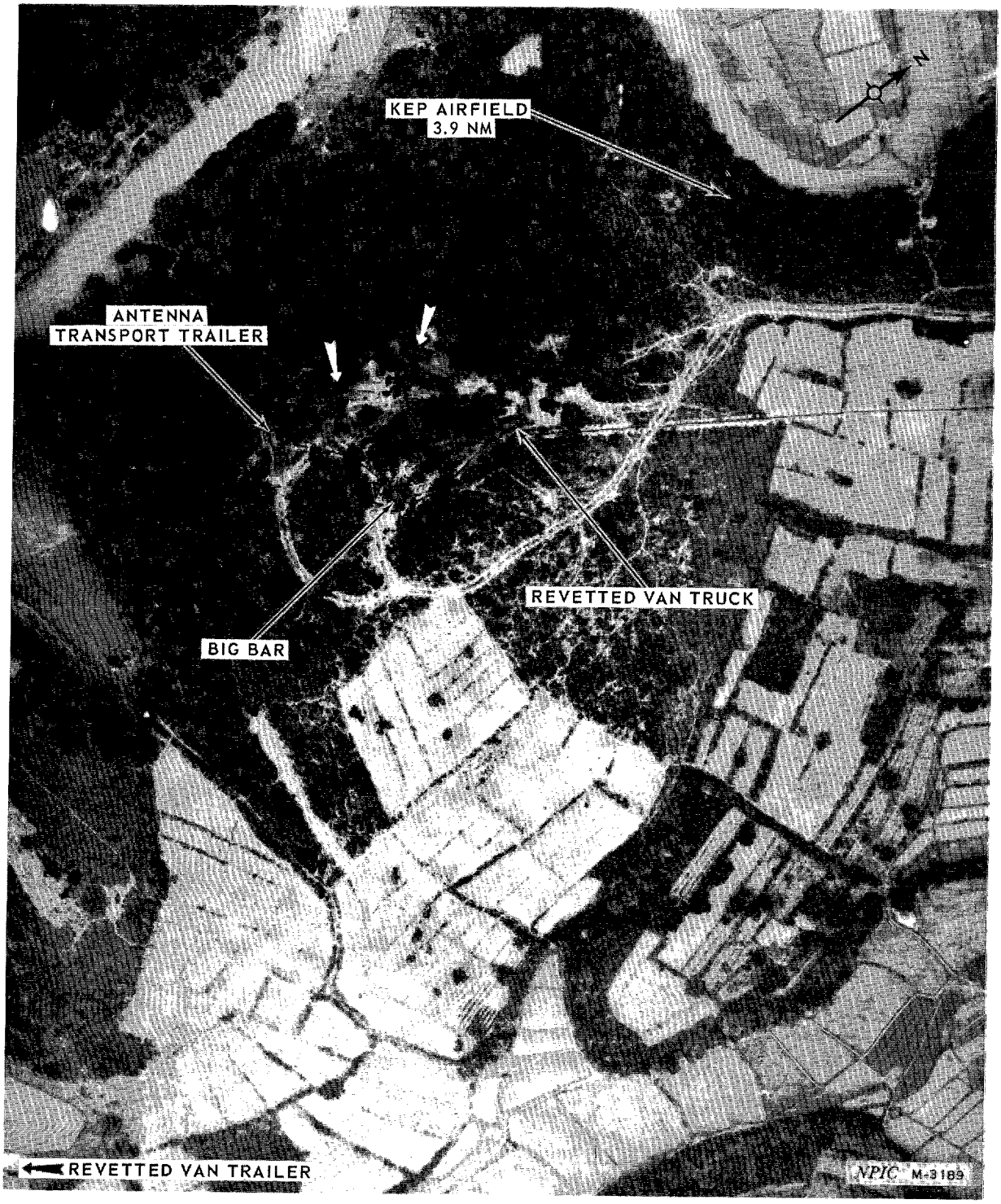
CHUYEN MY AW/GCI FACILITY

XJ254626
UTM COORDINATES

21-21N 106-12E
GEOGRAPHIC COORDINATES



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BE NUMBER	WJ891031 UTM COORDINATES	20-4 N 105-51E GEOGRAPHIC COORDINATES

NAME: VINH MO AW/GCI FACILITY

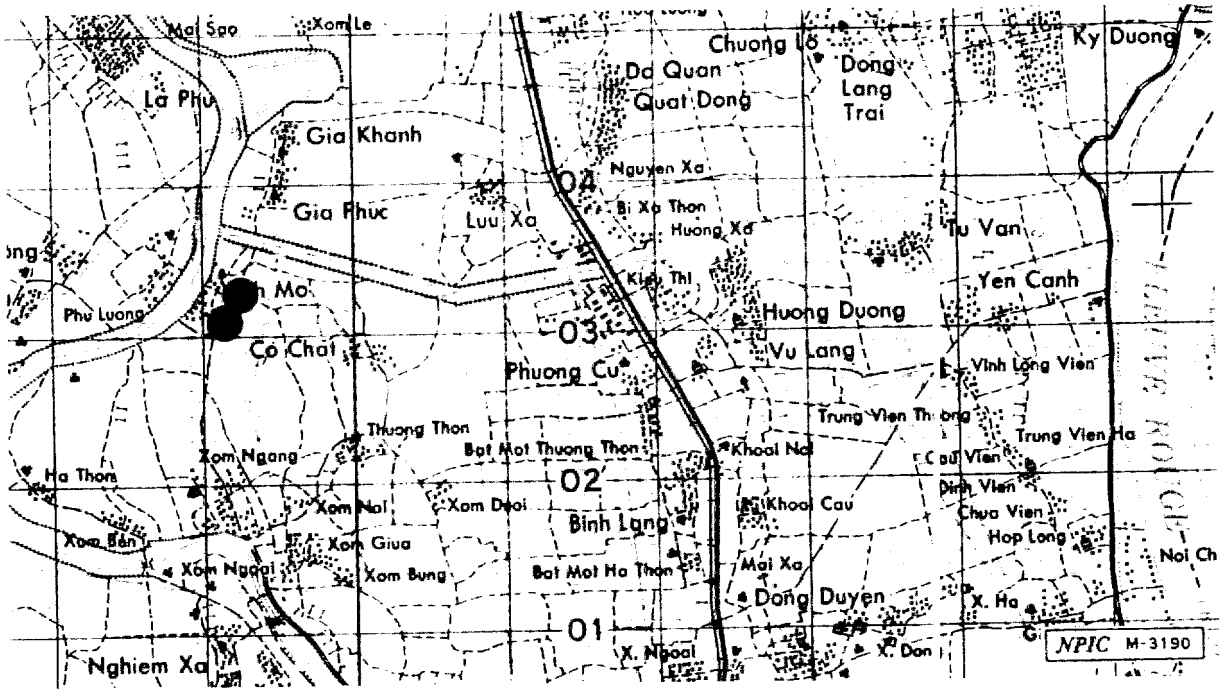
LOCATION: AT VINH MO, 9.9 NM SOUTH OF HANOI/BAC MAI AIRFIELD

DESCRIPTION: FACILITY CONSISTS OF 2 UNOCCUPIED RADAR MOUNDS AND 5 VEHICLE REVETMENTS. FOUR ADDITIONAL VEHICLE REVETMENTS AND A REVETTED STORAGE AREA ARE LOCATED NEARBY.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6150-I, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-15, 1ST ED, JUN 65 (U)



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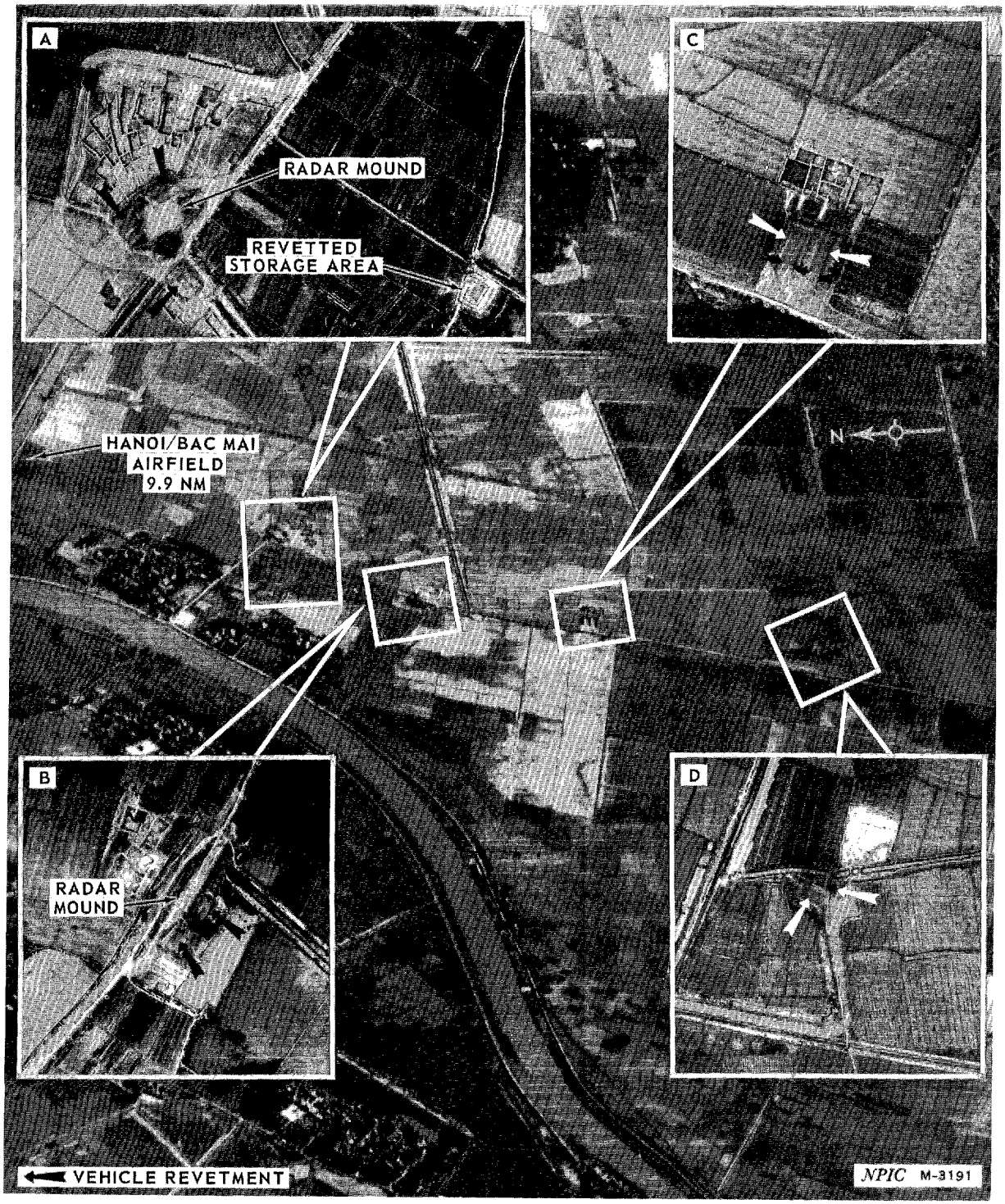
VINH MO AW/GCI FACILITY

WJ891031
UTM COORDINATES

20-49N 105-51E
GEOGRAPHIC COORDINATES



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25X1C SECRET

CATEGORY B

Air Search

Most North Vietnamese air search radar sites consist of 2 vehicle revetments and a hut or shelter. When the site is occupied, a radar (usually FLAT FACE or KNIFE REST) will be in one revetment and a generator will be in the other revetment.

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1	Ha Dong	B-2, 3 (May 67)
2	Ha Noi (Thuan Ton)	B-4, 5 (May 67)
3	Hanoi/Bac Mai AF	B-6, 7 (May 67)
4	Bai Thuong	B-8, 9 (May 67)
5	Vinh Son	B-10, 11 (May 67)
6	Phu Tho	B-12, 13 (May 67)
7	Ha Noi (Duc Noi)	B-14, 15 (May 67)
8	Ha Noi Gia Lam	B-16, 17 (May 67)
9	Dong Hoi	B-18, 19 (May 67)
10	Badon	B-20, 21 (May 67)
11	Hai Phong	B-22, 23 (May 67)
12	Bach Long Vi	B-24, 25 (May 67)
13	Van Nham	B-26, 27 (May 67)
14	My Duc	B-28, 29 (Jul 67)
15	Tien Yen	B-30, 31 (May 67)
16	Hoa Binh	B-32, 33 (May 67)
17	Thanh An	B-34, 35 (May 67)
18	Cua Lo	B-36, 37 (May 67)
19	Dong Thap (Yen Vinh)	B-38, 39 (May 67)
20	Phuc Yen SE Noi Bai	B-40, 41 (May 67)
21	Xom Phu Thinh	B-42, 43 (Jun 67)
22	Quang Khe	B-44, 45 (Jul 67)
23	Trung Lap	B-46, 47 (Apr 68)
24	Nhan Le	B-48, 49 (Apr 68)

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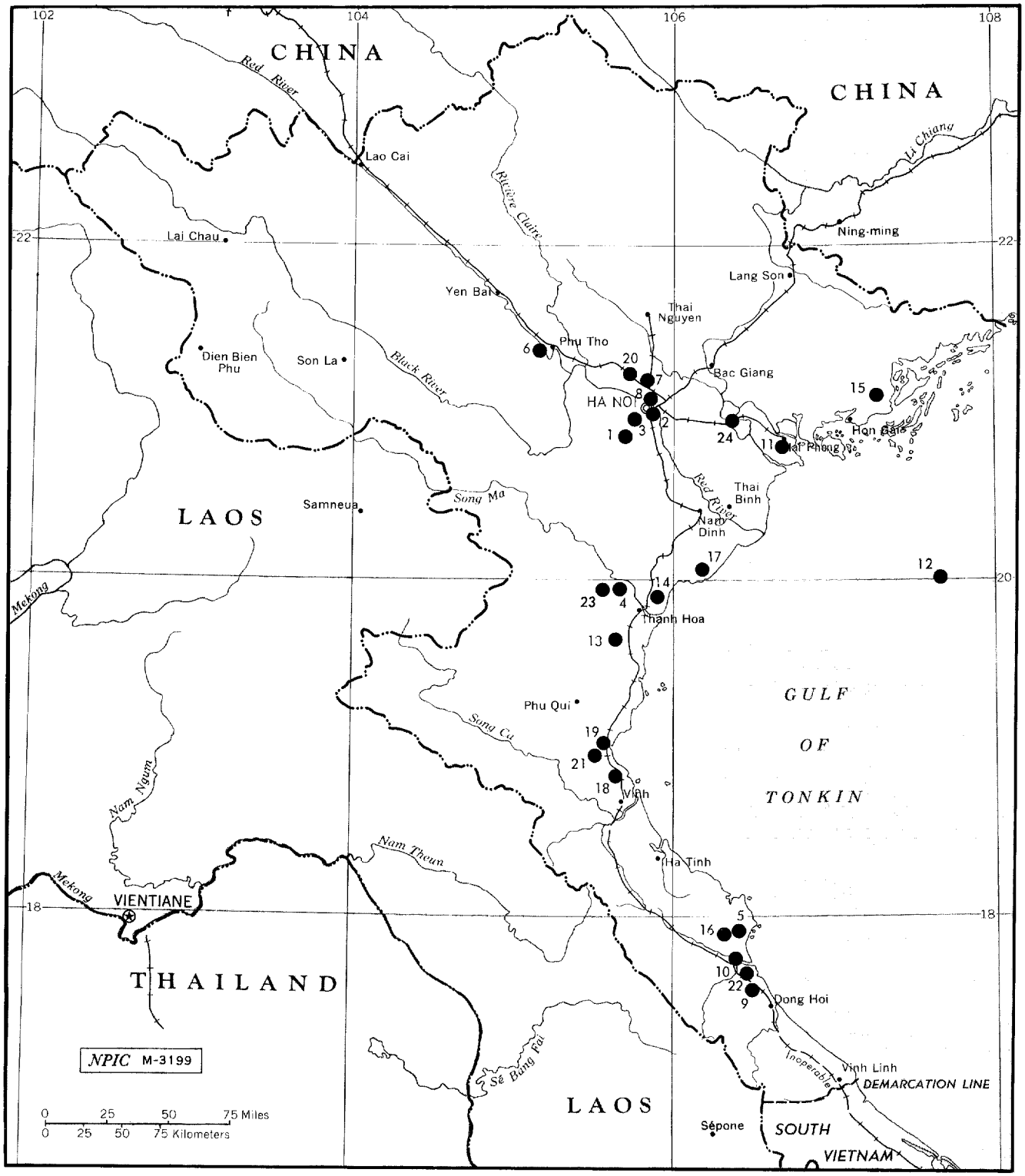
CATEGORY B

AIR SEARCH



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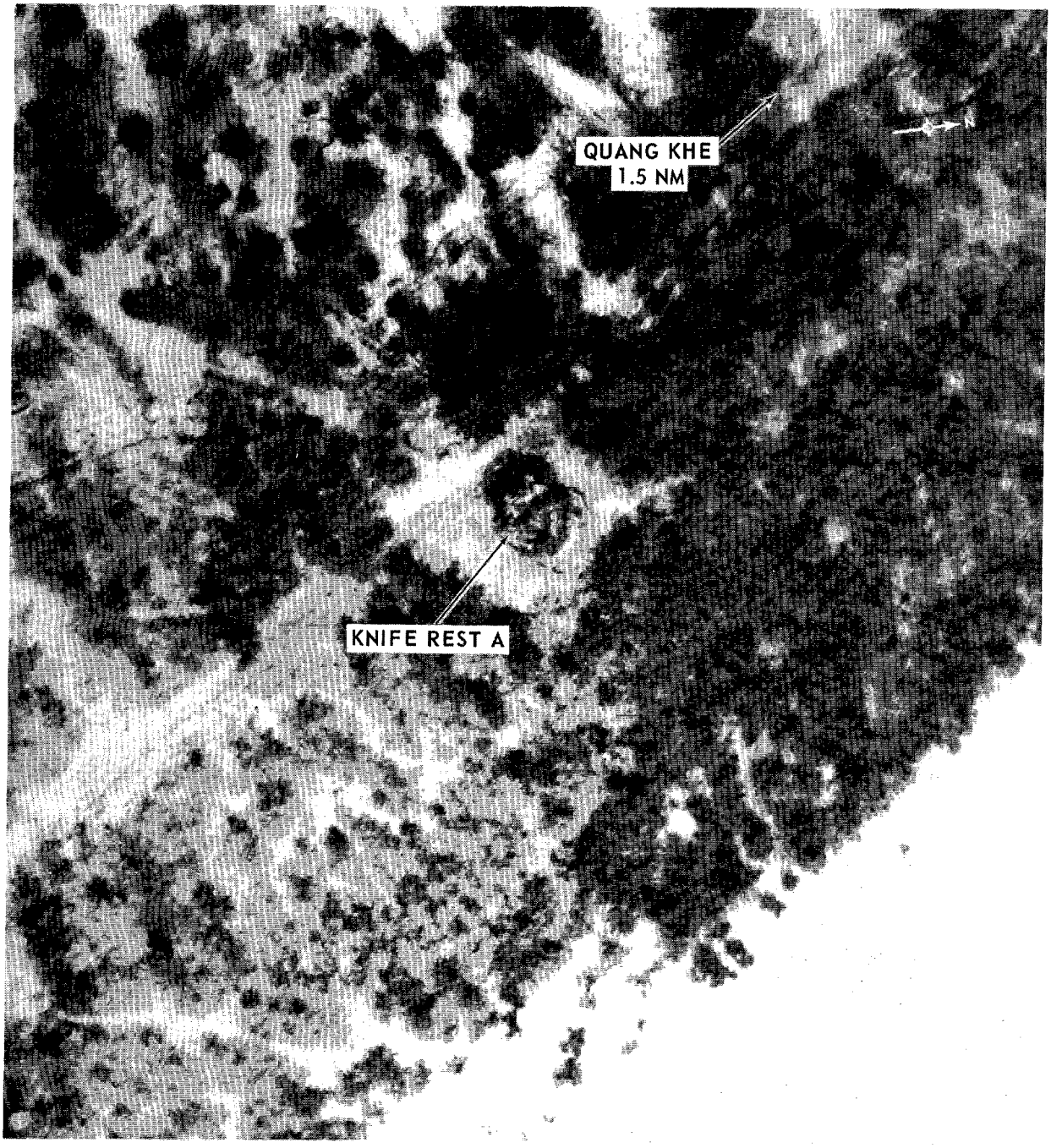
QUANG KHE RADAR

XE596554
UTM COORDINATES

17-40N 106-30E
GEOGRAPHIC COORDINATES



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25X1C

BE NUMBER	WH562085 UTM COORDINATES	19-53N 105-32E GEOGRAPHIC COORDINATES

NAME: TRUNG LAP RADAR

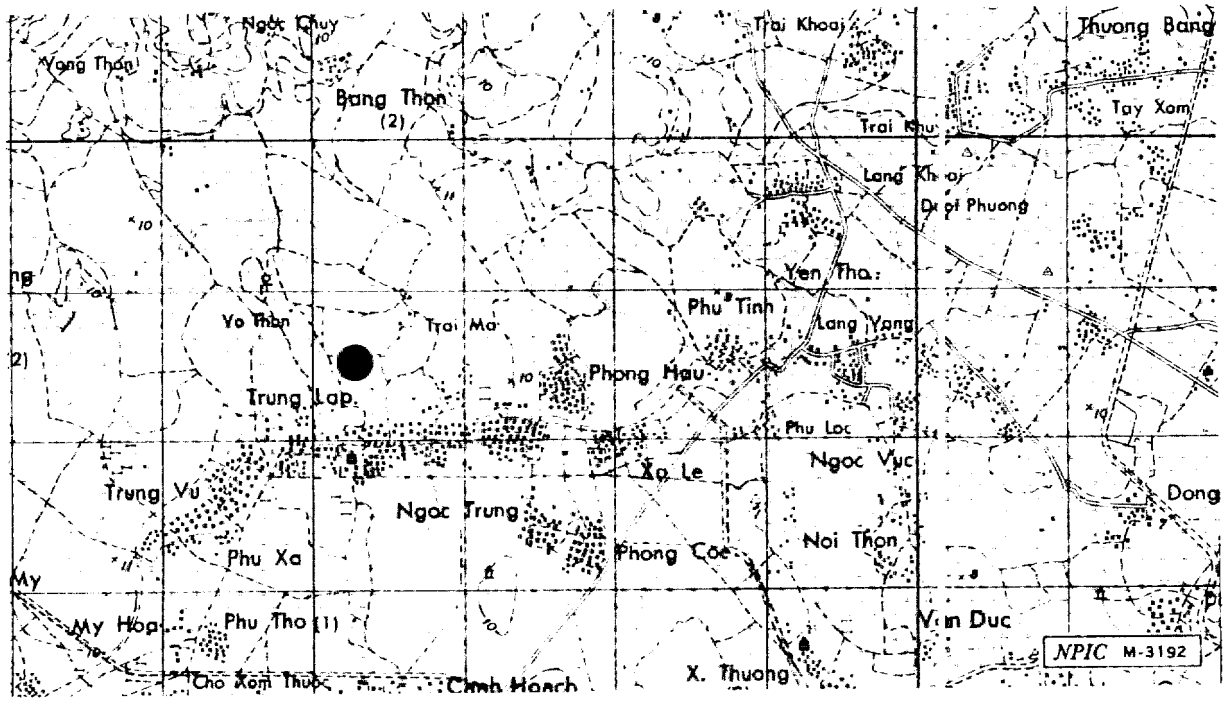
LOCATION: AT TRUNG LAP, 5.8 NM NE OF BAI THUONG AIRFIELD

DESCRIPTION: FACILITY CONSISTS OF A REVETTED POSSIBLE FLAT FACE RADAR AND A REVETTED PROBABLE SINGLE-AXLE GENERATOR TRAILER. ADDITIONAL PAIRS OF VEHICLE REVETMENTS ARE AT UTM WH566087, WH569084, WH578079, WH576087, WH575075, AND WH574077. ONE VEHICLE REVETMENT IS OCCUPIED BY A CARGO TRUCK AND THE OTHER 11 ARE UNOCCUPIED.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6148-IV, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NE 48-3, 1ST ED, JUN 65 (U)



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25X1C

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NPIC/R-32/67-6
APRIL 1968

TRUNG LAP RADAR

WH562085
UTM COORDINATES

19-58N 105-32E
GEOGRAPHIC COORDINATES

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25X1C
CONFIDENTIAL
[redacted]

BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES
	XJ411202	20-18N 106-21E

NAME: NHAN LE RADAR

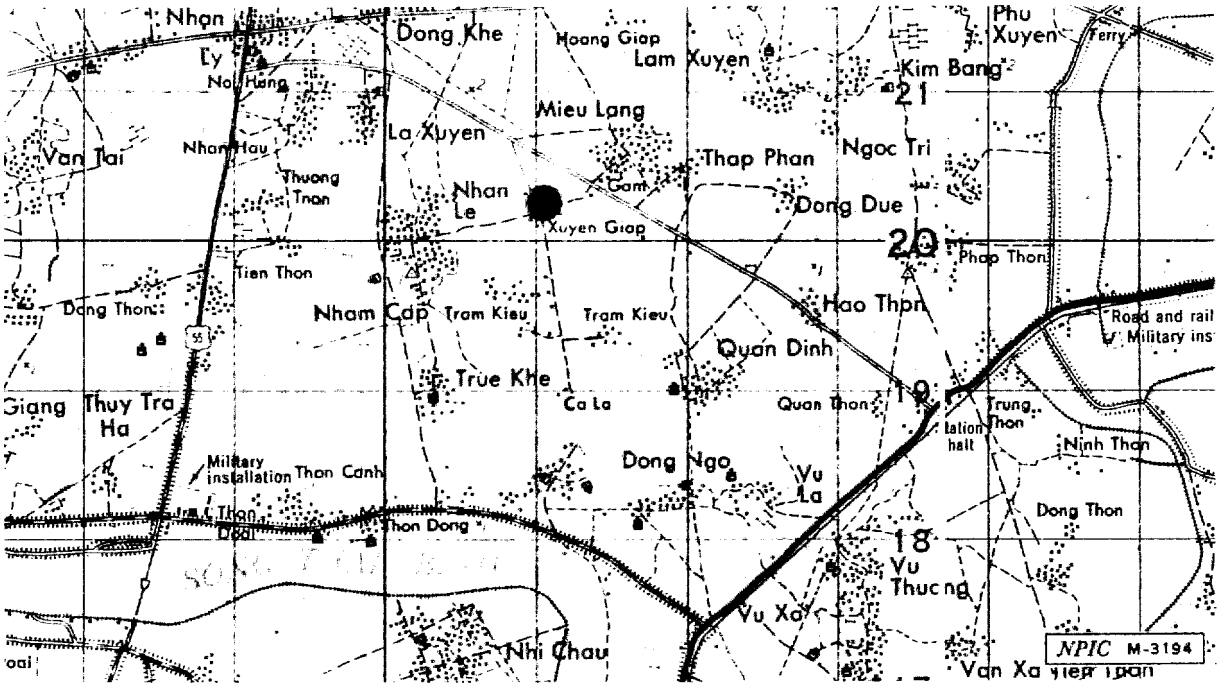
LOCATION: 0.5 NM ENE OF NHAN LE AND 2.7 NM NNE OF HAI DUONG

DESCRIPTION: FACILITY CONSISTS OF A REVETTED KNIFE REST RADAR AND A REVETTED VAN TRUCK.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6250-I, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-15, 1ST ED, JUN 65 (U)



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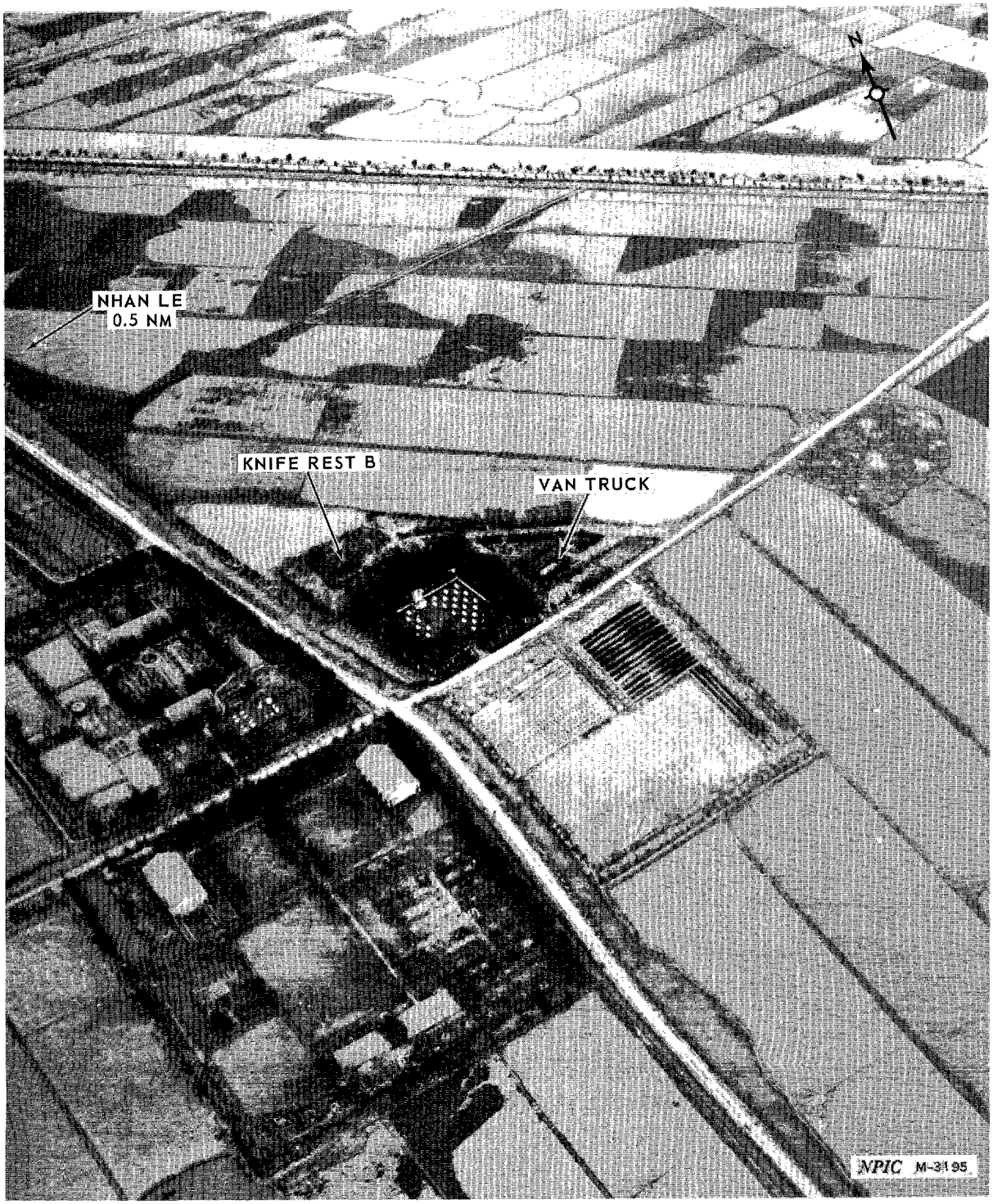
NHAN LE RADAR

XJ411202
UTM COORDINATES

20-58N 106-21E
GEOGRAPHIC COORDINATES



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NPIC/R-32/67

CATEGORY C

Surface Search

Prior to the beginning of the US air strikes in 1965, the North Vietnamese had deployed CROSS SLOT radars on high ground along the coast and on offshore islands for a combined air search and suface search capability. These sites were subjected to air strikes and are no longer in operation. It is probable that smaller shipboard radars have since been installed along the coast. These have not been identified on photography, probably due to the relatively small size of this equipment and the use of camouflage.

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Surface Search

Map Key	Installation Name	Effective Page
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2*	Bach Long Vi	B-24, 25 (May 67)
3*	Van Nham	B-26, 27 (May 67)
4*	My Duc	B-28, 29 (Jul 67)
5*	Cua Lo	B-36, 37 (May 67)
6	Long Chau	C-2, 3 (Jul 67)
7	Ha Tinh	C-4, 5 (Apr 68)

*These CROSS SLOT radar sites are reported in Category B and have an additional surface search capability.

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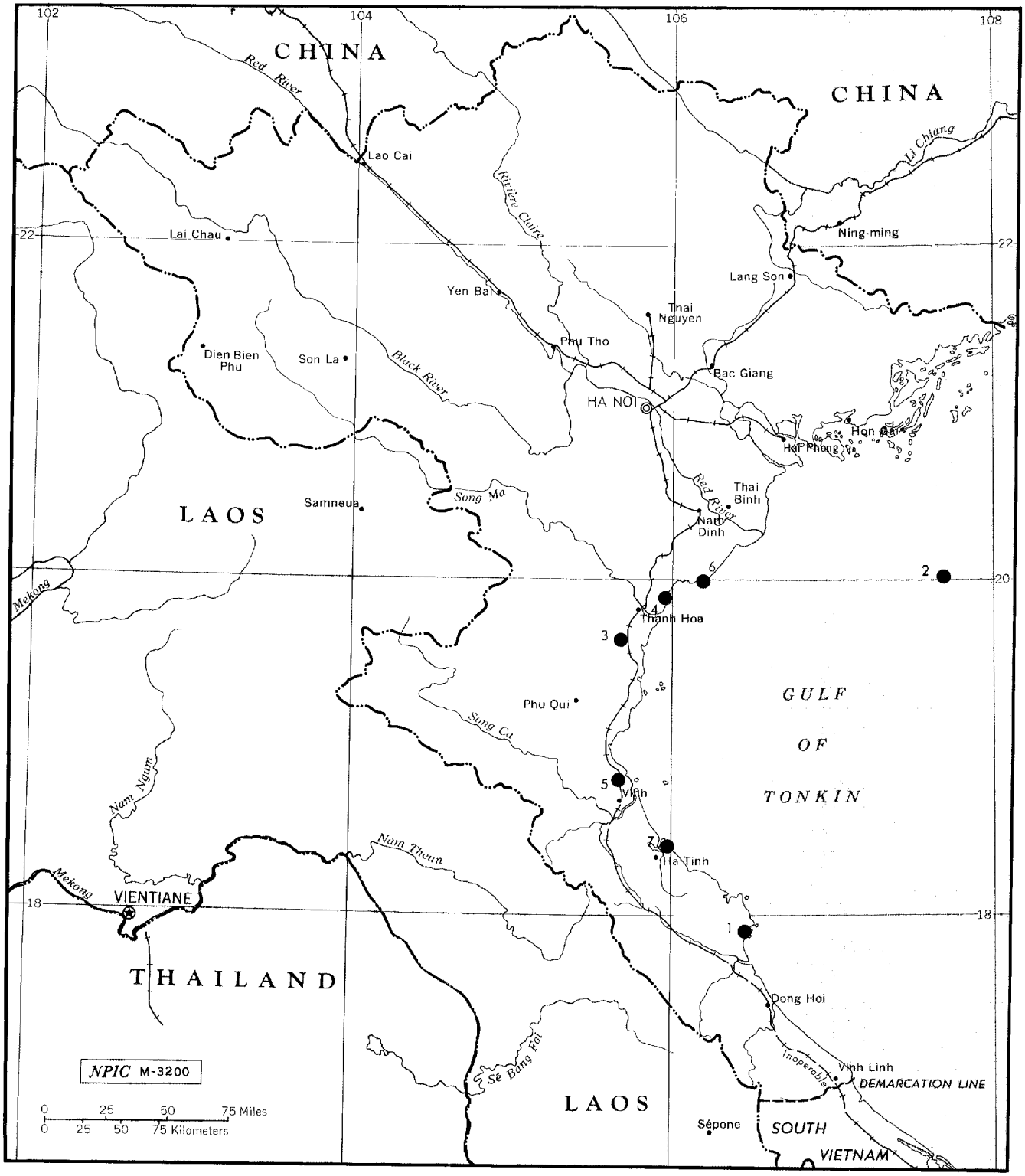
CATEGORY C

SURFACE SEARCH



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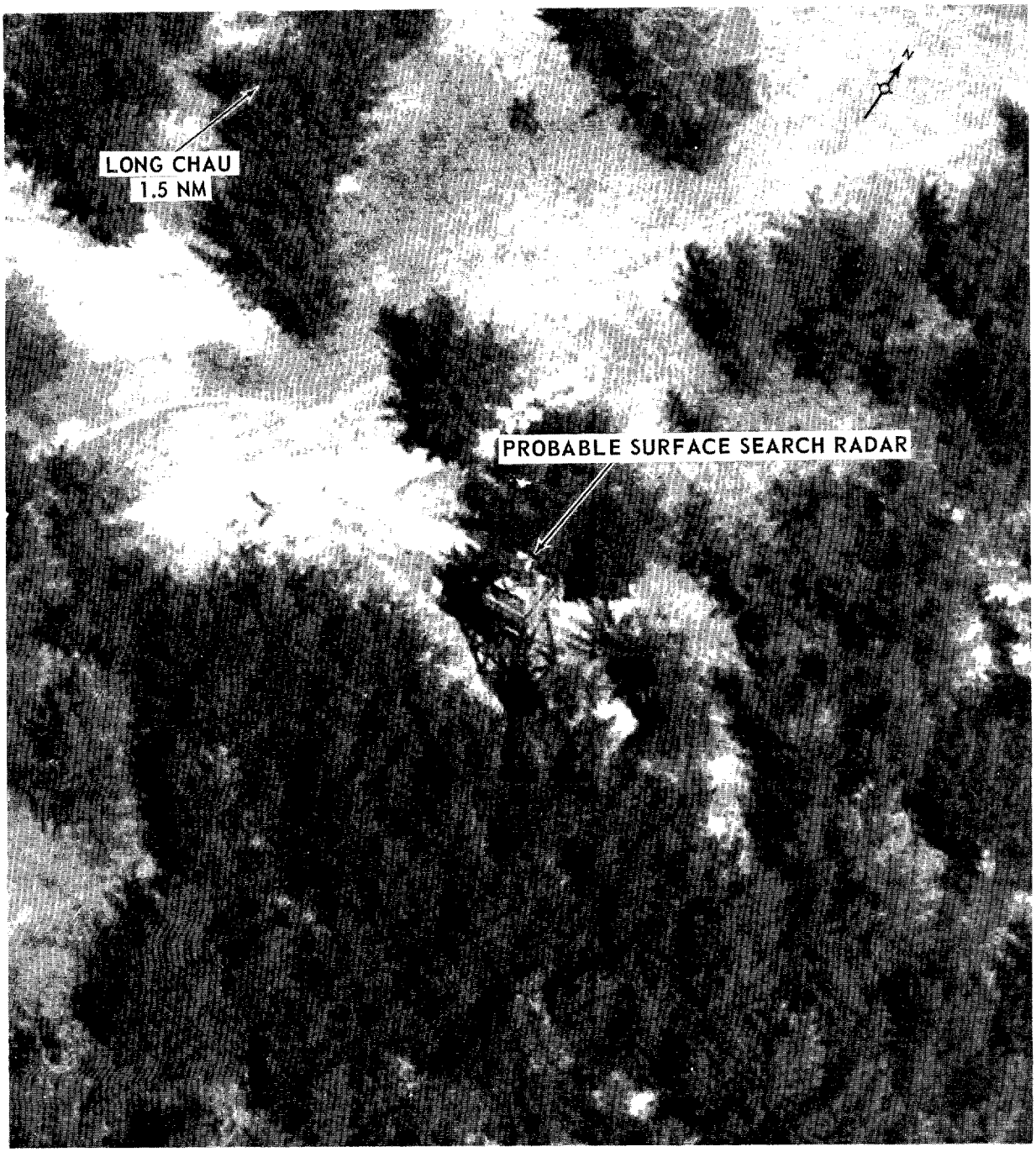
[redacted]

UTM COORDINATES

LONG CHAU RADAR

20-00N 106-12E
GEOGRAPHIC COORDINATES



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[redacted]

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CONFIDENTIAL
[redacted]

APRIL 1968

BE NUMBER	WF999419 UTM COORDINATES	18-28N 105-56E GEOGRAPHIC COORDINATES

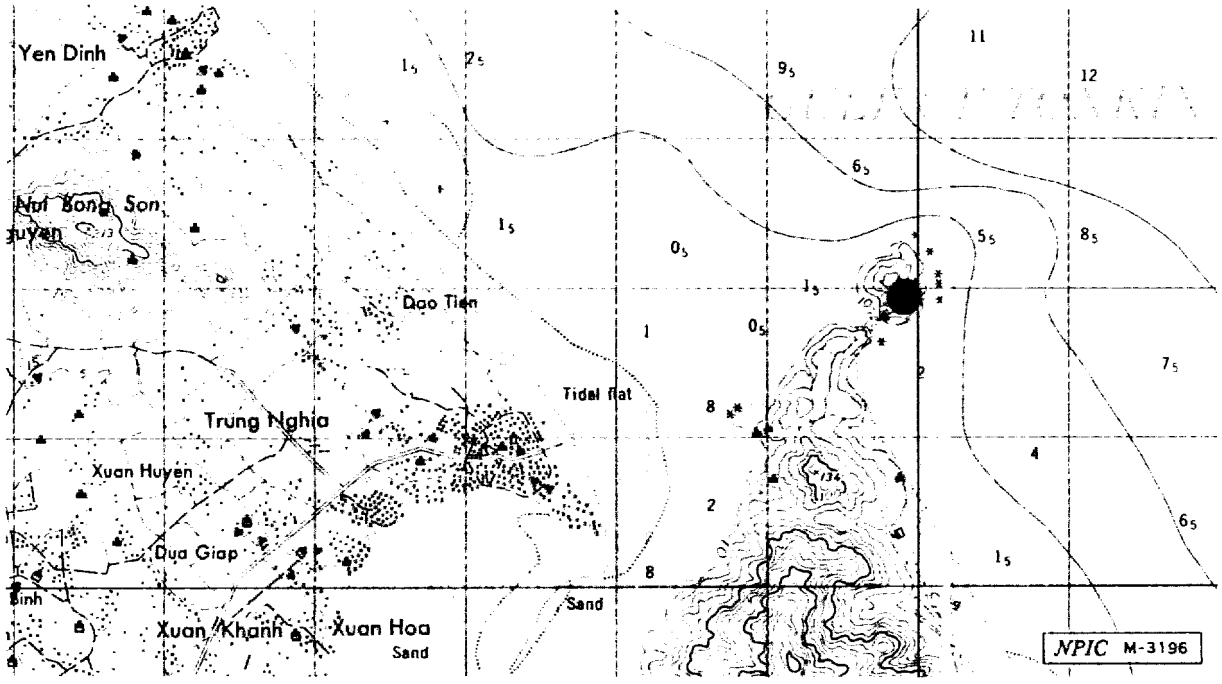
NAME: HA TINH RADAR

LOCATION: 7.8 NM NNE OF HA TINH

DESCRIPTION: FACILITY CONSISTS OF A DON 2/DONETS 2-TYPE SURFACE SEARCH RADAR MOUNTED ON A MASONRY TOWER. AN UNOCCUPIED COASTAL DEFENSE SITE IS ADJACENT TO THE RADAR SITE.

PHOTO REFERENCES: 25X1D [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6145-I, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NE 48-7, 1ST ED, JUN 65 (U)



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[redacted]

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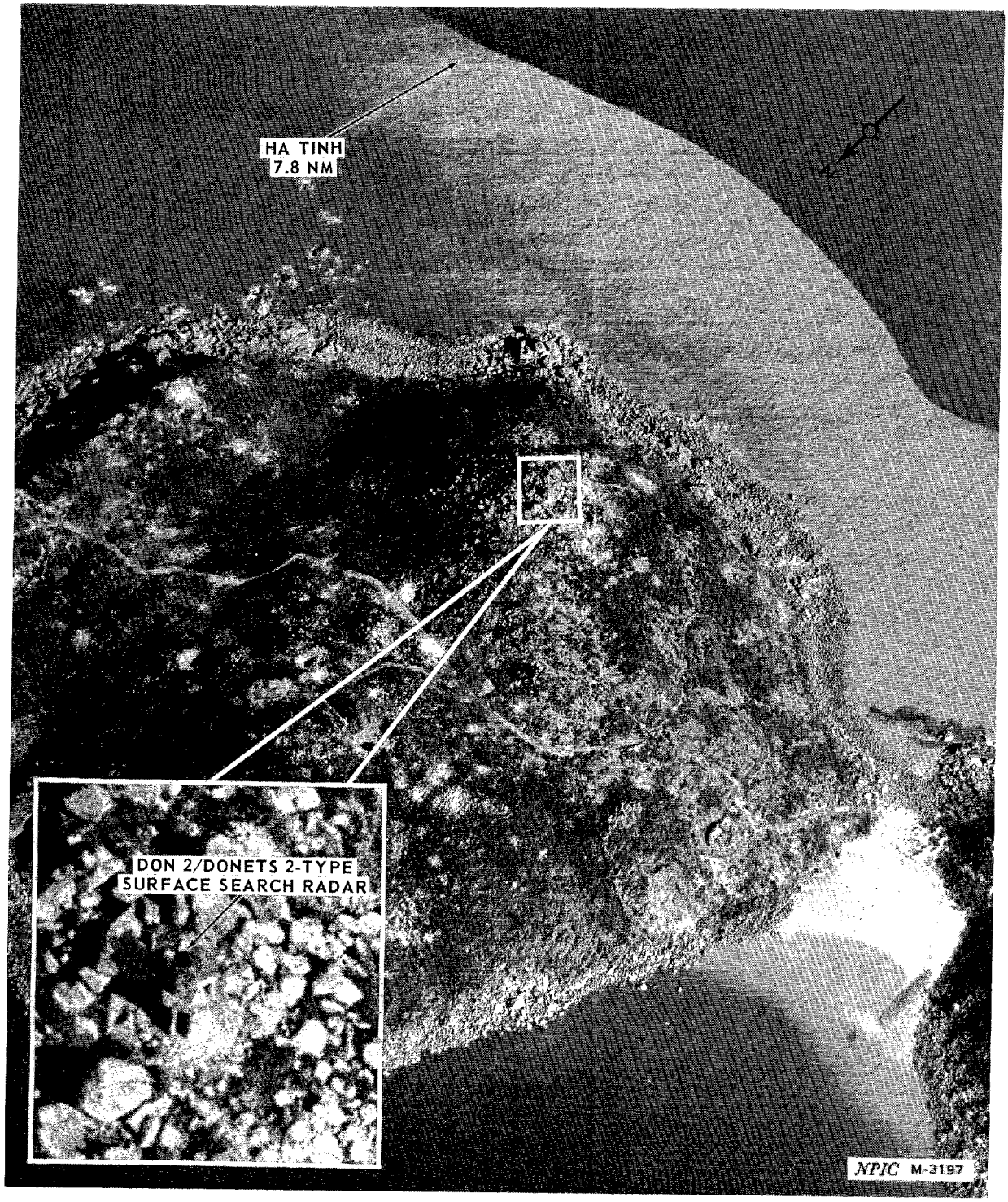
HA TINH RADAR

WF999419
UTM COORDINATES

18-28N 105-56E
GEOGRAPHIC COORDINATES



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NOTICE

This is the seventh in a series of updated and supplementary items to be inserted by page number in NPIC/R-32/67, *Southeast Asia Activity Report, Selected Radar Sites, North Vietnam.* The effective date of *each page is printed in the upper right-hand corner under the NPIC report number and in the tables of contents.*

Pages which have been superceded and no longer required should be destroyed in accordance with applicable security regulations.

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The overall classification of this report has been changed to SECRET/ No Foreign Dissem [redacted] *however,*

25X1C

individual pages which can be classified CONFIDENTIAL or CONFIDENTIAL/No Foreign Dissem [redacted] will be so identified.

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INTRODUCTION

This report is an NPIC study designed to present an overall view of the radar facilities in North Vietnam. It is not all-inclusive, since it will contain only those sites which have been observed on aerial photography. Fire control radar for antiaircraft or missiles will not be reported.

The study is divided into 4 categories:

CATEGORY A — Air Warning Ground Controlled Intercept (AW - GCI). These are multiple radar sites which contain a variety of electronic equipment and have a capability for the determination of the range, bearing, altitude, and identification, friend or foe (IFF) of aircraft. However, all sites which include a TOKEN-type or BAR LOCK-type radar will be included in this category even if associated height-finding or IFF radar cannot be identified.

CATEGORY B — Air Search. These are normally singly deployed radars which have either limited or no heightfinding capability. Acquisition radars which are associated with AAA or SAM sites will not be reported.

CATEGORY C — Surface Search. These radars are normally deployed on high ground along the coast or on offshore islands and are used to locate and track shipping.

CATEGORY D — Ground Controlled Approach (GCA). These radars are located at airfields and provide an all-weather capacity.

The introduction to each of the categories contains a table of contents and a small-scale plot map. A photographic analysis of the referenced photography, a large-scale plot map, and a photograph are provided for each item.

The type of photography utilized in this report limits mensuration; therefore, all measurements are necessarily approximate.

Since most radar equipment in North Vietnam is mobile and may be readily moved from one location to another, sites will not be deleted from the report and no attempt will be made to report the current operational status of any radar site.

Electronic order-of-battle publications are frequently keyed to a number which is identical to the last part of the BE number and should be consulted for the current status of radar sites.

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CATEGORY A

Air Warning/Ground Controlled Intercept

The North Vietnamese employ a single TOKEN-type radar (usually BAR LOCK or BIG BAR) and a single heightfinder (normally SIDE NET or ROCK CAKE/STONE CAKE) for air warning/ground controlled intercept (AW/GCI). This is not in accordance with the Soviet practice of providing several similar back-up radars at AW/GCI sites.

The North Vietnamese usually attempt to conceal their GCI sites to protect them from US air strikes; however, well defined sites, such as Thuy Ha (page A-22), have also been constructed.

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20	Hoa Lac	A-40, 41 (Nov 67)
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22	Bac Vong	A-44, 45 (Jan 68) (S)
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27	Tinh Thon	A-54, 55 (Apr 68)
28	Duong Yen	A-56, 57 (Apr 68) (S)
29	Chuyen My	A-58, 59 (Apr 68)
30	Vinh Mo	A-60, 61 (Apr 68) (S)
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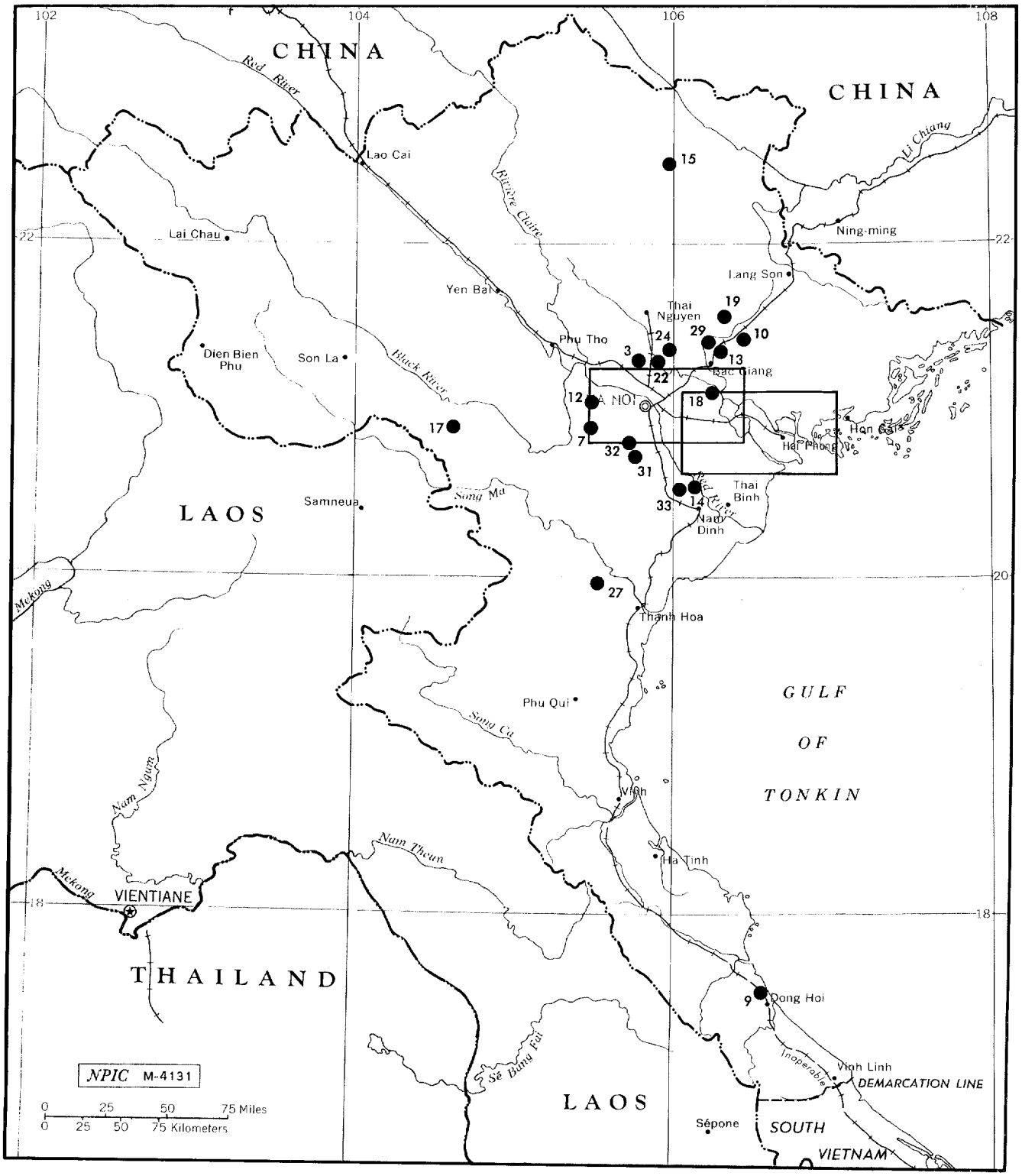
CATEGORY A
AIR WARNING/GROUND CONTRO



A-III

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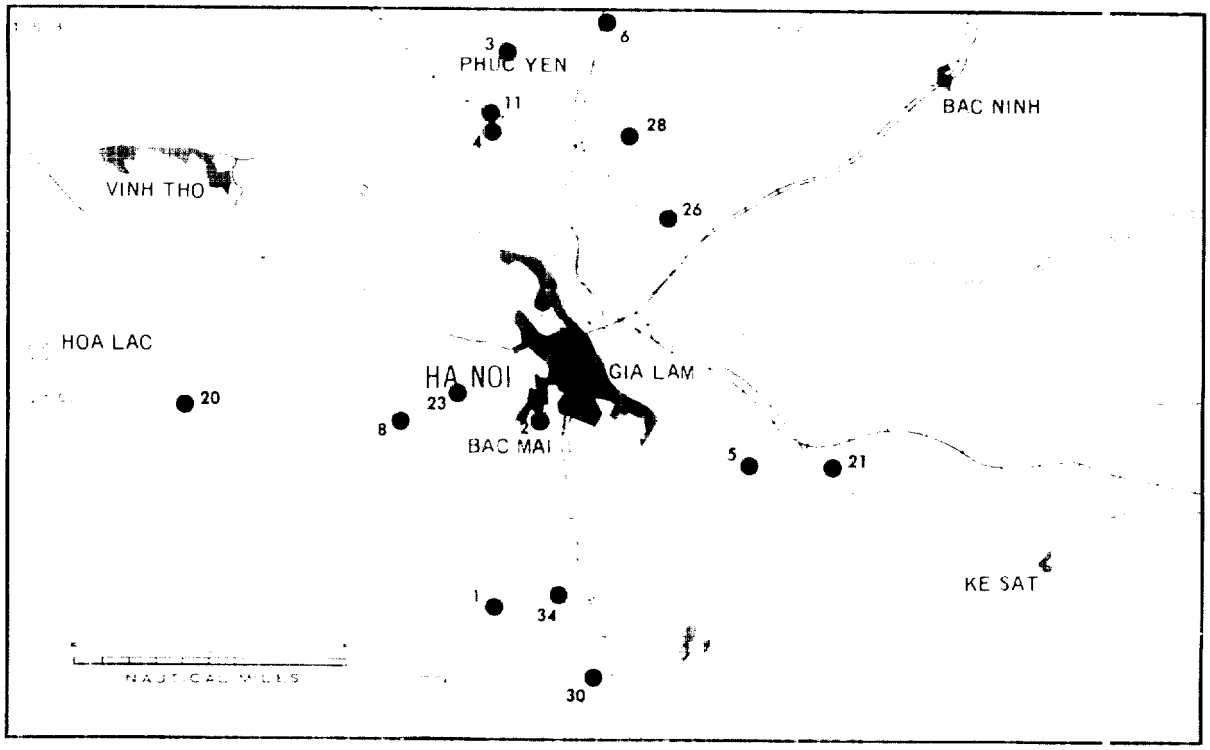

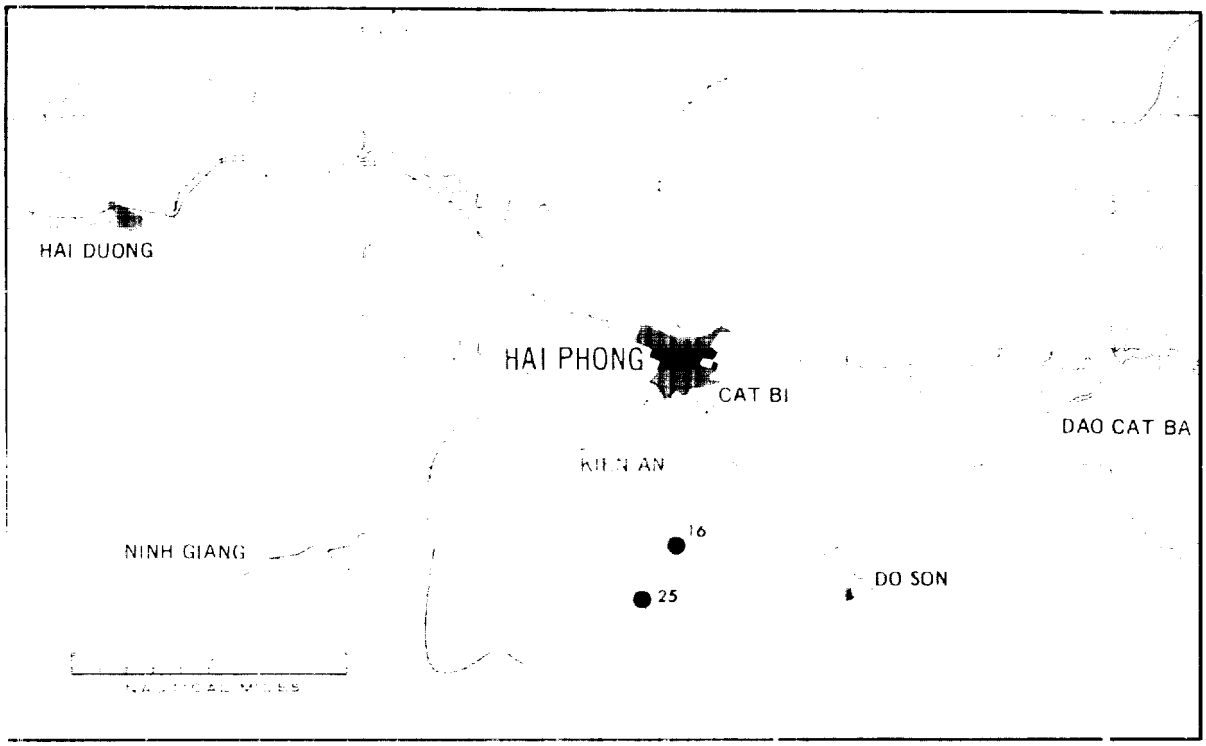

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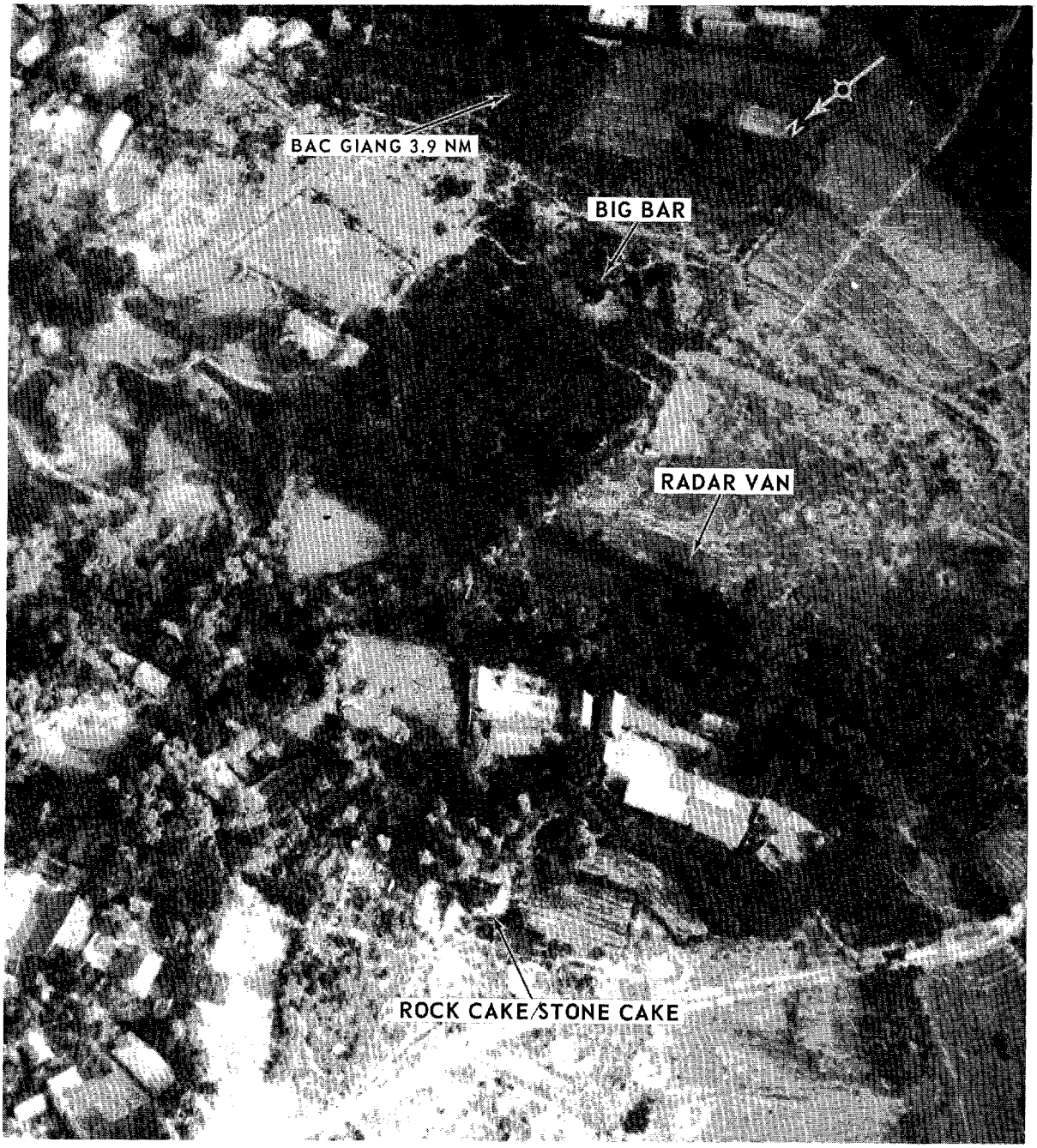
QUANG MO

XJ282587
UTM COORDINATES

21-19N 106-14E
GEOGRAPHIC COORDINATES



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BE NUMBER	XH087786 UTM COORDINATES	20-36N 106-02E GEOGRAPHIC COORDINATES

NAME: XOM NGOAI AW/GCI FACILITY

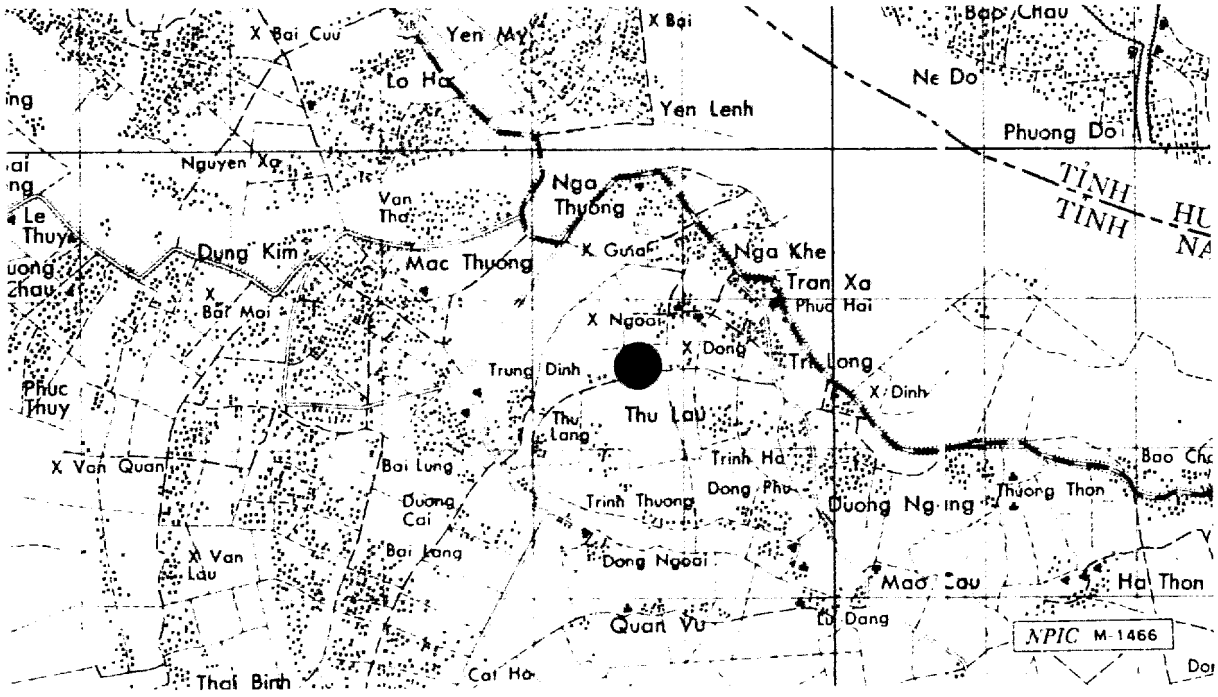
LOCATION: IMMEDIATELY SW OF XOM NGOAI AND 13.9 NM NW OF NAM DINH

DESCRIPTION: FACILITY CONSISTS OF A STONE CAKE RADAR ON A MOUND WITH AN ADJACENT POSSIBLE VAN TRUCK, AND THREE VEHICLE REVETMENTS OCCUPIED BY A VAN TRUCK AND A PROBABLE CARGO TRUCK.

NEARBY VEHICLE REVETMENTS INCLUDE TWO REVETMENTS (ONE OCCUPIED BY A VAN TRUCK) AT UTM XH084782, THREE REVETMENTS AT UTM XH084787, AND ONE REVETMENT AT UTM XH088781.

PHOTO REFERENCES: 25X1D [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6250 III, 1ST ED, 1965
AMS SERIES 1501, SHEET NF 48-15



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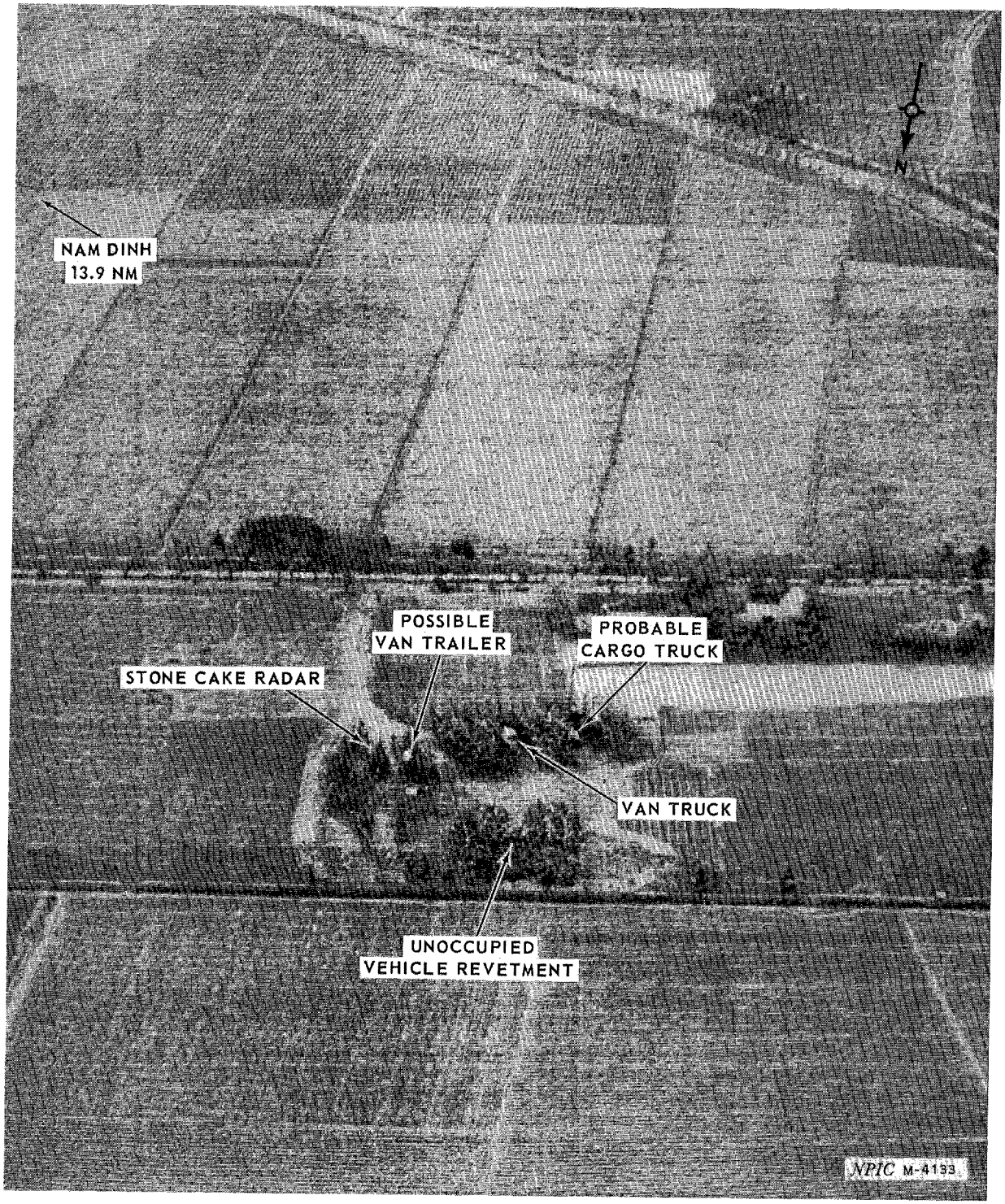
XOM NGOAI AW/GCI FACILITY

XH087786
UTM COORDINATES

20-36N 106-02E
GEOGRAPHIC COORDINATES



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[redacted]

Approved For [redacted]005900010018-5

25X1A

[redacted]	WK981800	22-2 iN 105-57E
BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES

NAME: NGAN SON AW/GCI FACILITY

LOCATION: 2.9 NM WEST OF NGAN SON AND 25.5 NM SW OF CAO BANG.

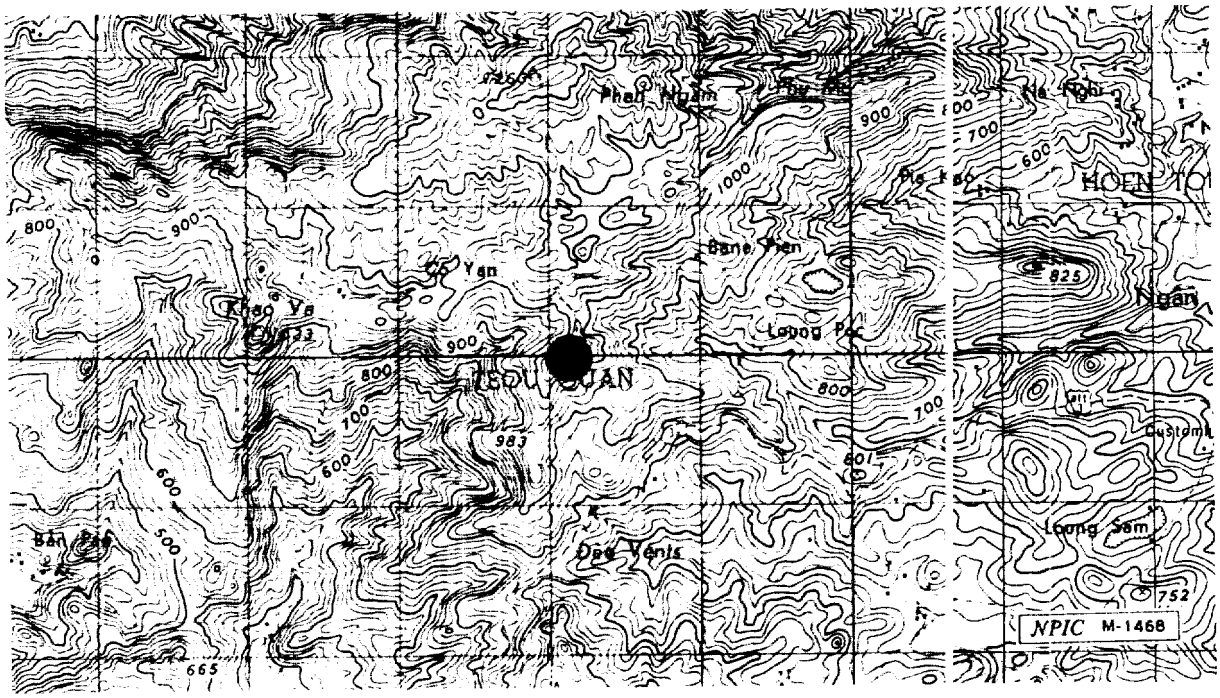
DESCRIPTION: FACILITY CONSISTS OF A TOKEN-TYPE RADAR (PROBABLY BIG BAR), 2 REVETTED VAN TRAILERS, 1 REVETTED VAN TRUCK, AND 7 SUPPORT BUILDINGS. A POSSIBLE RADAR POSITION UNDER CONSTRUCTION, [redacted] AND AN EMPTY REVETMENT ARE ADJACENT TO THE SITE. 25X1D

THREE VAN TRAILERS, 1 CARGO TRUCK WITH A POSSIBLE TRAILER, AND 2 UTILITY TRUCKS ARE OBSERVED IMMEDIATELY SE OF THE SITE, ON ROUTE 3A AT ITS JUNCTION WITH THE ACCESS ROAD.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET, 6153-1, 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-7

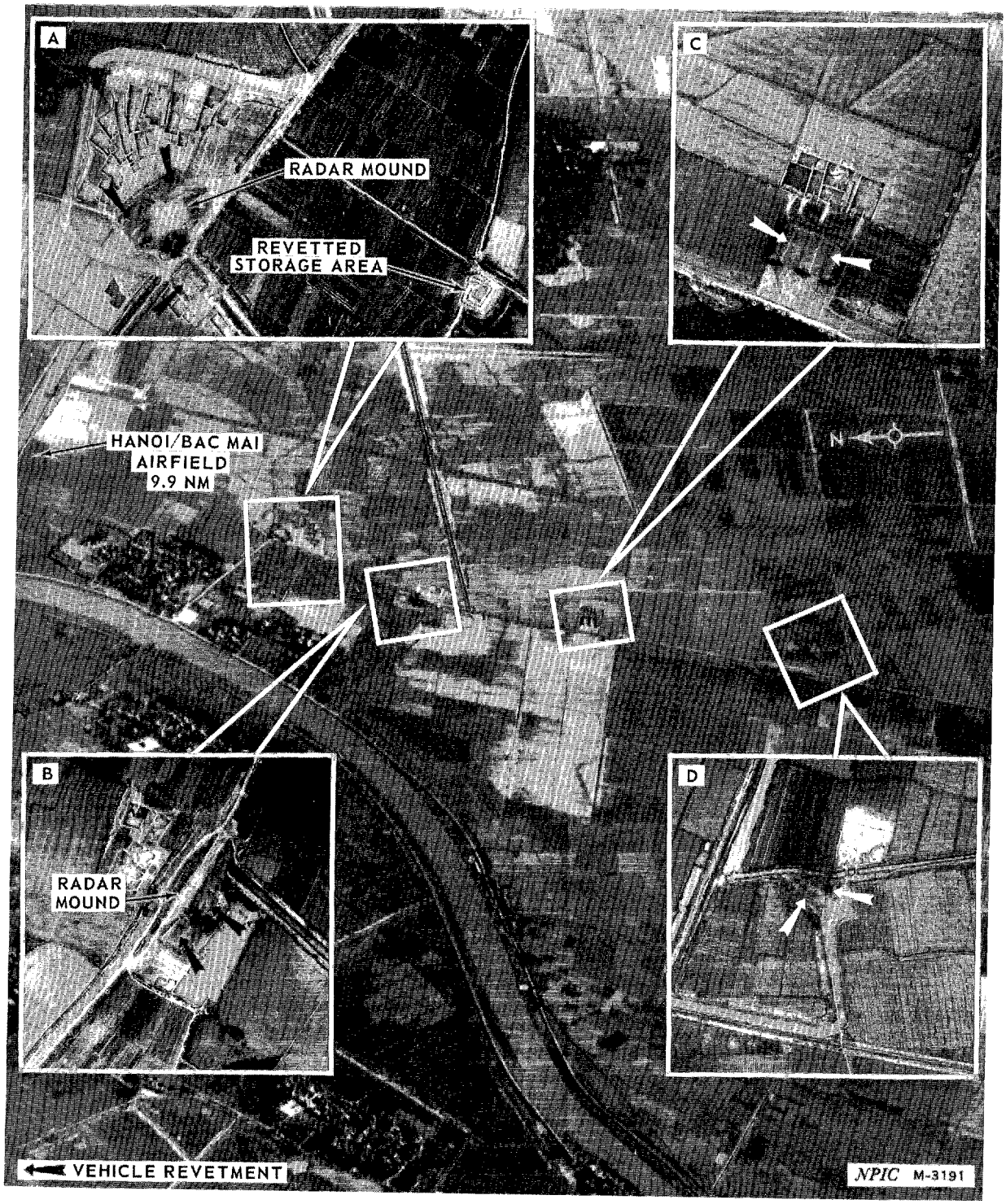


25X1C SECRET
Approved For Release 2000/04/17 : CIA-RDP78B04560A005900010018-5
[redacted]

VINH MO AW/GCI FACILITY

WJ891031
UTM COORDINATES

20-49N 105-51E
GEOGRAPHIC COORDINATES



BE NUMBER	UTM COORDINATES	GEOGRAPH C COORDINATES
	WJ759120	20-54N 105-43E

NAME: PHUC CAU AW/GCI FACILITY

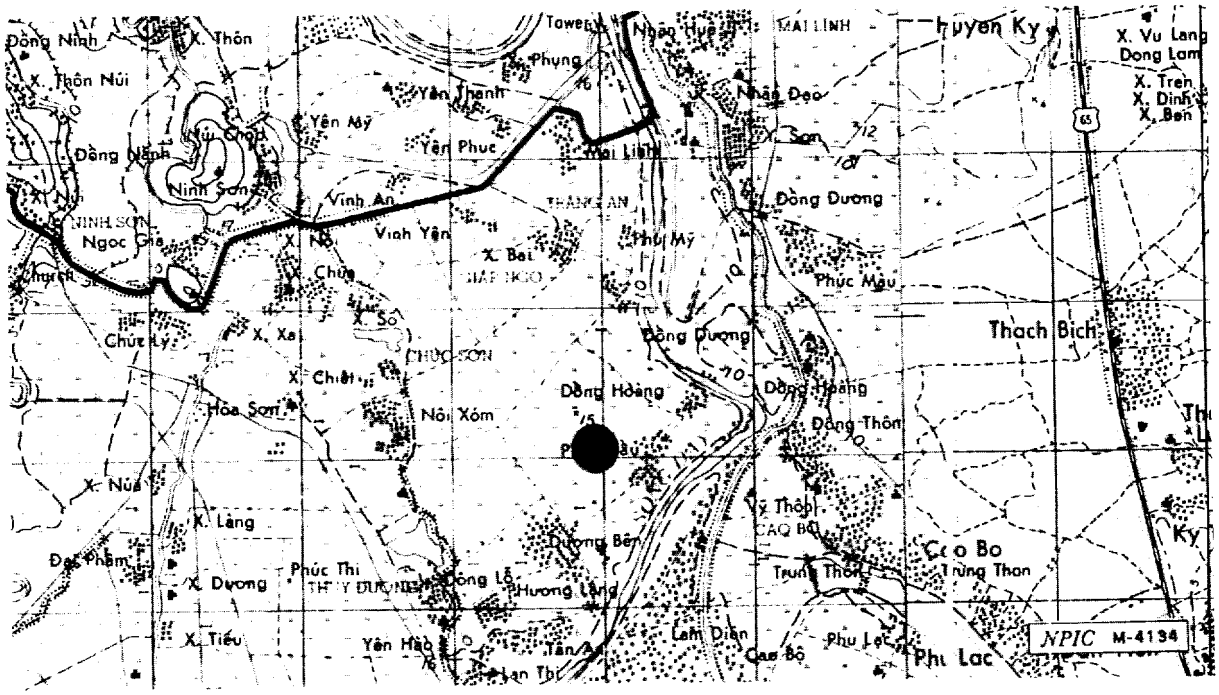
LOCATION: 0.2 NM WEST OF PHUC CAU AND 4.6 NM SW OF HA DONG

DESCRIPTION: FACILITY CONSISTS OF TWO RADAR MOUNDS AND TWO NEARBY VEHICLE REVETMENTS.

25X1D

PHOTO REFERENCES: [redacted]

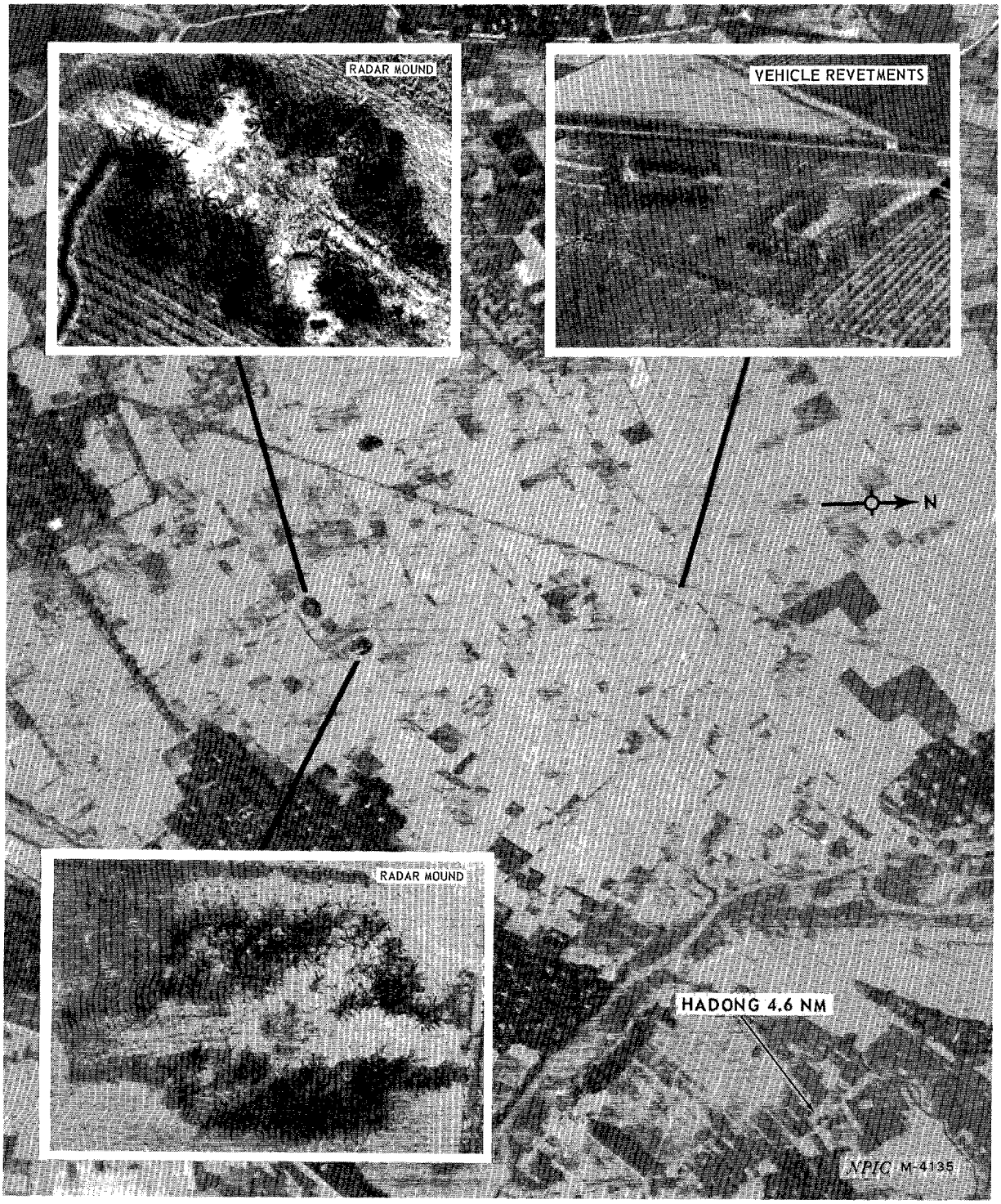
MAP REFERENCES: AMS SERIES L7014, SHEET 6150 IV 1ST ED, 1965 (U)
AMS SERIES 1501, SHEET NF 48-15



PHUC CAU AW/GCI FACILITY

WJ759120
UTM COORDINATES

20-54N 105-43E
GEOGRAPHIC COORDINATES



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25X1C SECRET
[redacted]

(INFORMATION ON THIS PAGE IS CONFIDENTIAL NO FOREIGN DISSEM EXCEPT [redacted]

25X1C

BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES
	WJ760131	20-55N 105-43E

NAME: PHU MY AW/GCI FACILITY

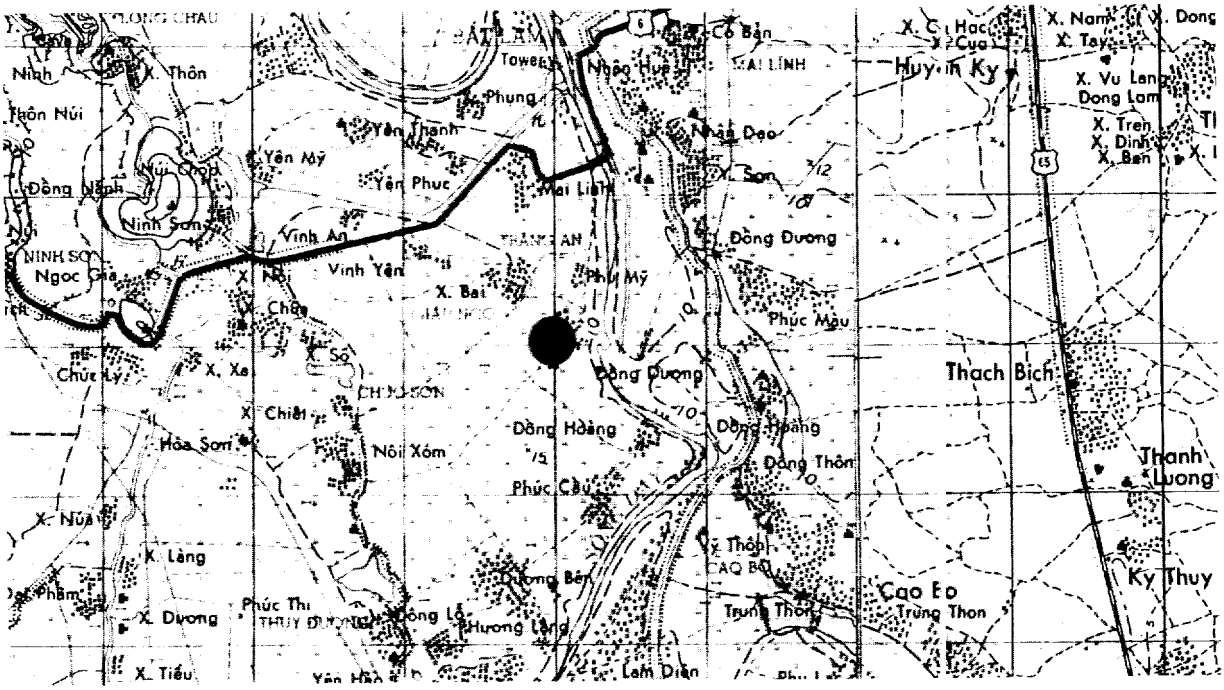
LOCATION: 0.2 NM SE OF XOM BAI AND 4.2 NM SW OF HA DONG

DESCRIPTION: FACILITY CONSISTS OF TWO RADAR MOUNDS, SEVEN VEHICLE REVETMENTS, AND ONE REVETTED STORAGE AREA.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6150 IV, 1ST ED, 1965
AMS SERIES 1501, SHEET NF 48-15



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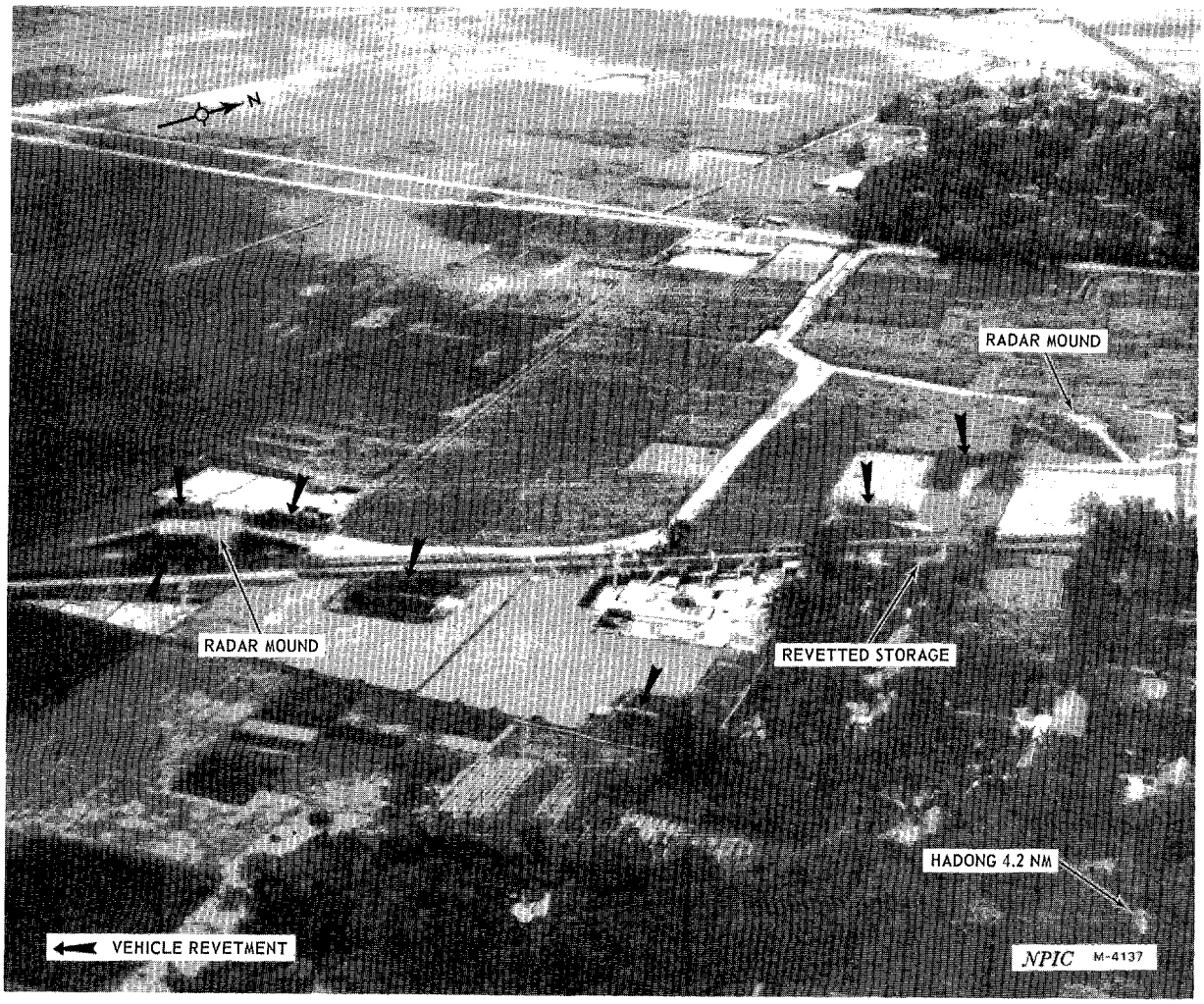
PHU MY AW/GCI FACILITY

WJ760131
UTM COORDINATES

20-55N 105-43E
GEOGRAPHIC COORDINATES



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25X1C
CONFIDENTIAL

BE NUMBER	XH047782 UTM COORDINATES	20-35N 106-00E GEOGRAPHIC COORDINATES

NAME: PHUC THUY AW/GCI FACILITY

LOCATION: IMMEDIATELY SW OF PHUC THUY AND 14.4 NM NW OF NAM DINH

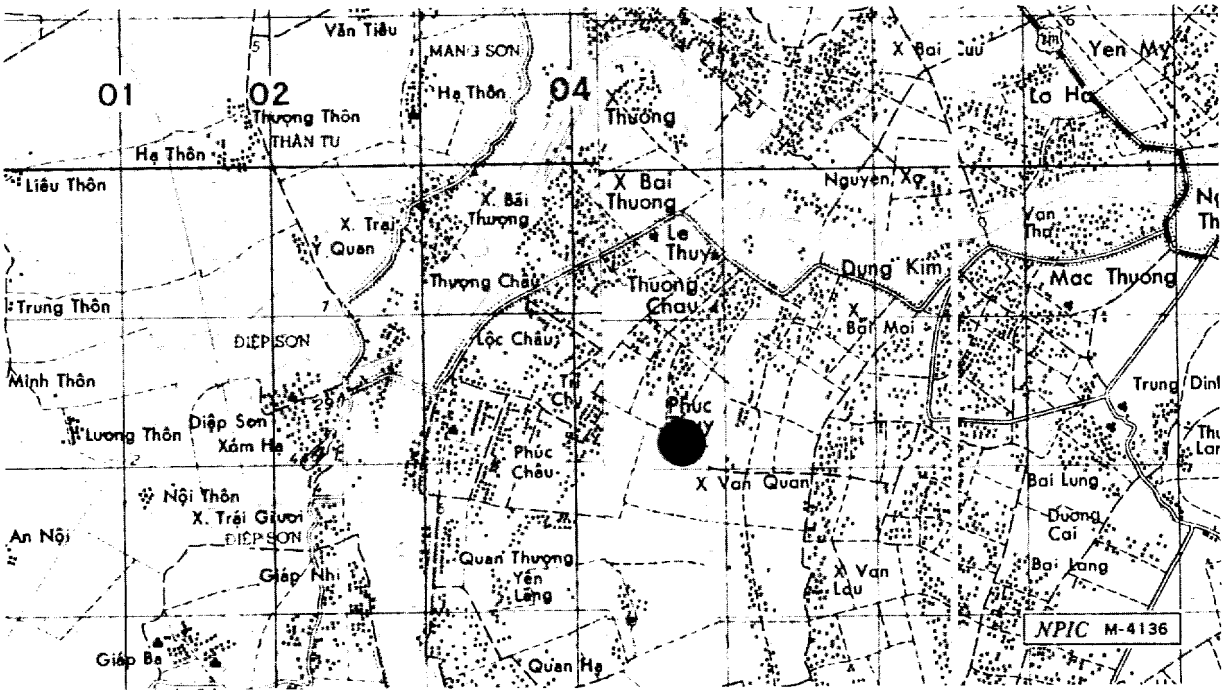
DESCRIPTION: FACILITY CONSISTS OF A LOW, PLATFORM-MOUNTED CROSS SLOT RADAR ON A MOUND AT UTM XH044784 WITH AN ADJACENT HUT AND THREE VEHICLE REVETMENTS (TWO OCCUPIED BY HUTS).

ADDITIONAL FACILITIES INCLUDE A PROBABLE RADAR MOUND AND TWO VEHICLE REVETMENTS AT XH047782 AND THREE VEHICLE REVETMENTS AT XH051778.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6250 III, 1ST ED, 1965
AMS SERIES 1501, SHEET NF 48-15



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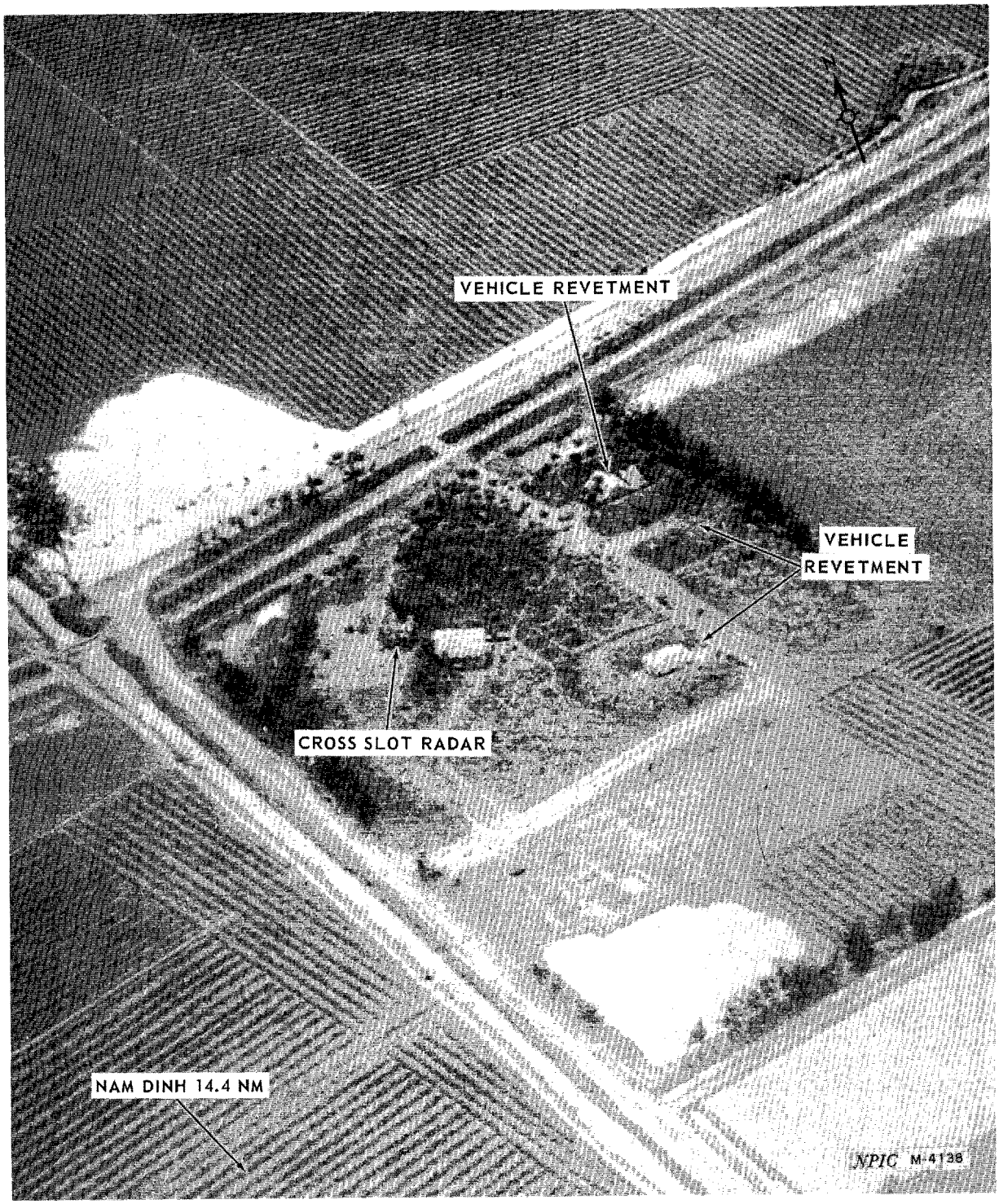
25X1C
CONFIDENTIAL

PHUC THUY AW/GCI FACILITY

XH047782
UTM COORDINATES

20-35N 106-00E
GEOGRAPHIC COORDINATES



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25X1C
CONFIDENTIAL
NRIC/B-32/67-7
SECRET

BE NUMBER	WJ859099 UTM COORDINATES	20-53N 105-49E GEOGRAPHIC COORDINATES

NAME: HANOI AW/GCI FACILITY (LIEU NGOAI)

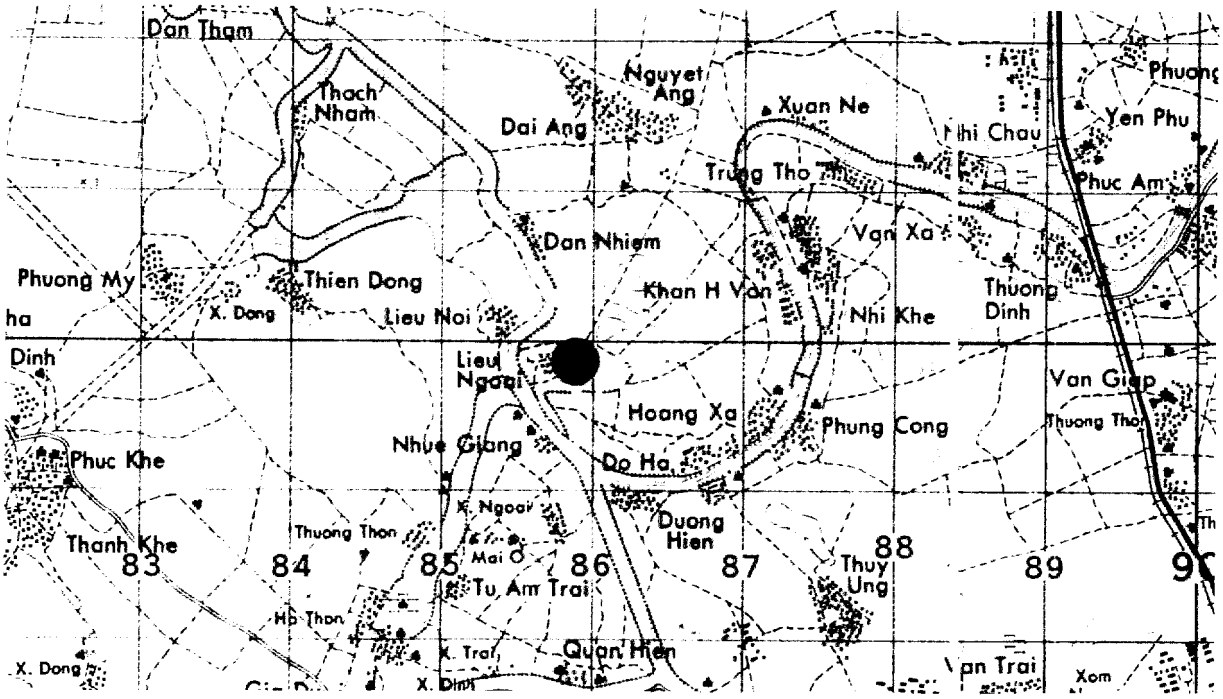
LOCATION: NORTH EDGE OF LIEU NGOAI, 6.1 NM SOUTH OF HANOI/BAC MAI AF

DESCRIPTION: FACILITY CONSISTS OF ONE RADAR MOUND AND FOUR VEHICLE REVETMENTS.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6150 I, 1ST ED, 1965
AMS SERIES L1501, SHEET NF 48-15



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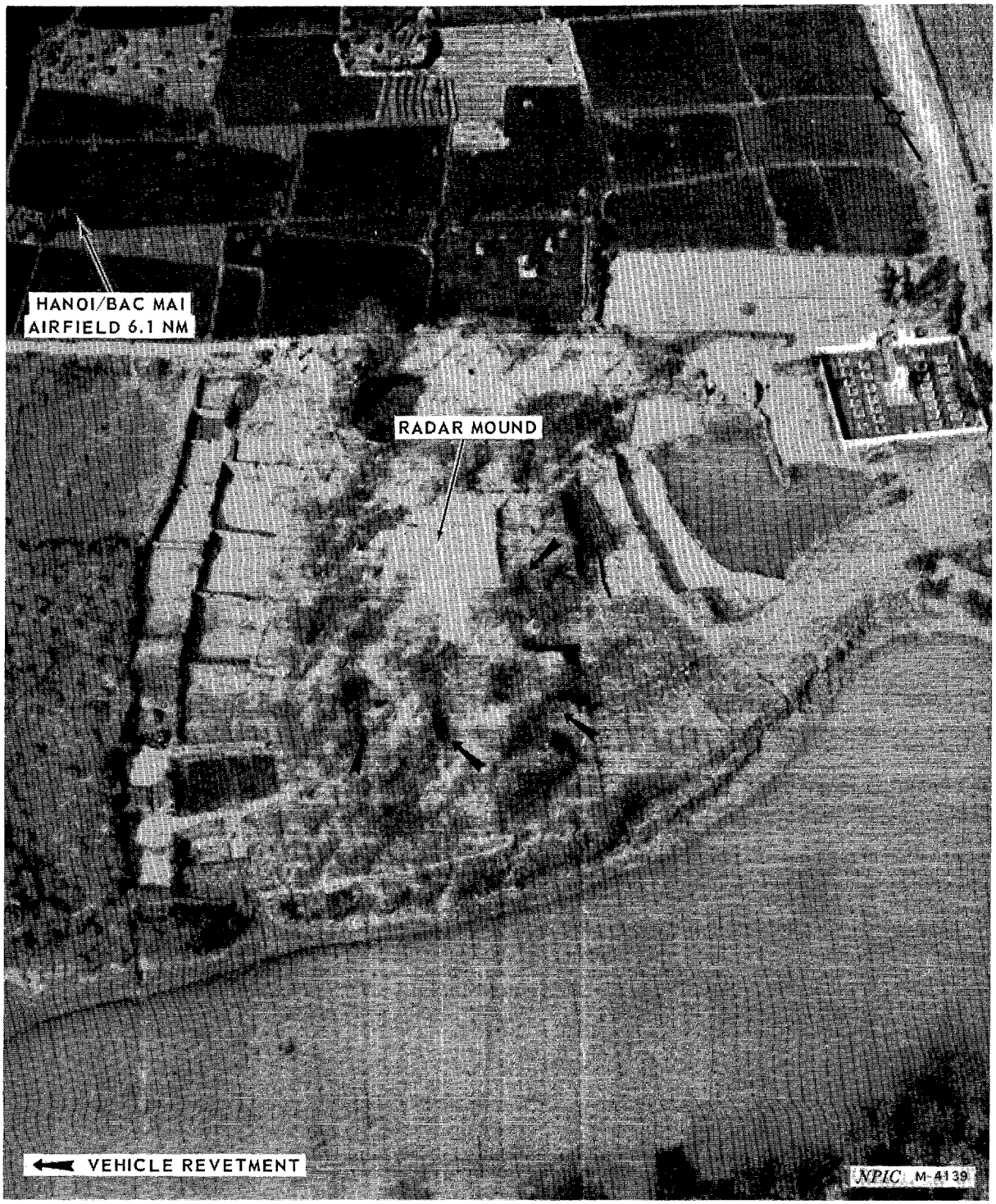
HANOI AW/GCI FACILITY (LIEU NGOAI)

WJ859099
UTM COORDINATES

20-53N 105-49E
GEOGRAPHIC COORDINATES



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NPIC/R-32/67
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CATEGORY B

Air Search

Most North Vietnamese air search radar sites consist of 2 vehicle revetments and a hut or shelter. When the site is occupied, a radar (usually FLAT FACE or KNIFE REST) will be in one revetment and a generator will be in the other revetment.

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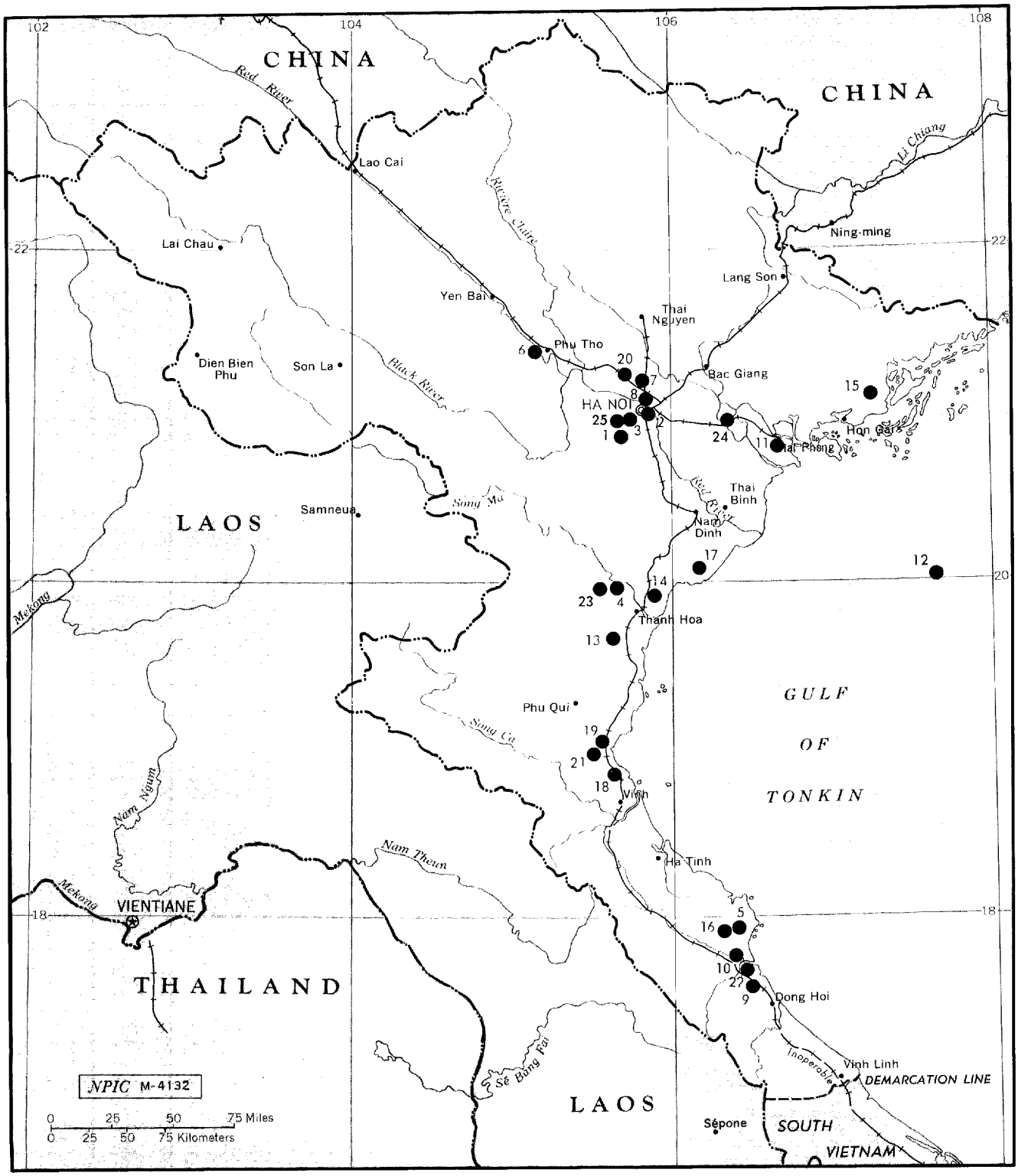
CATEGORY B
AIR SEARCH



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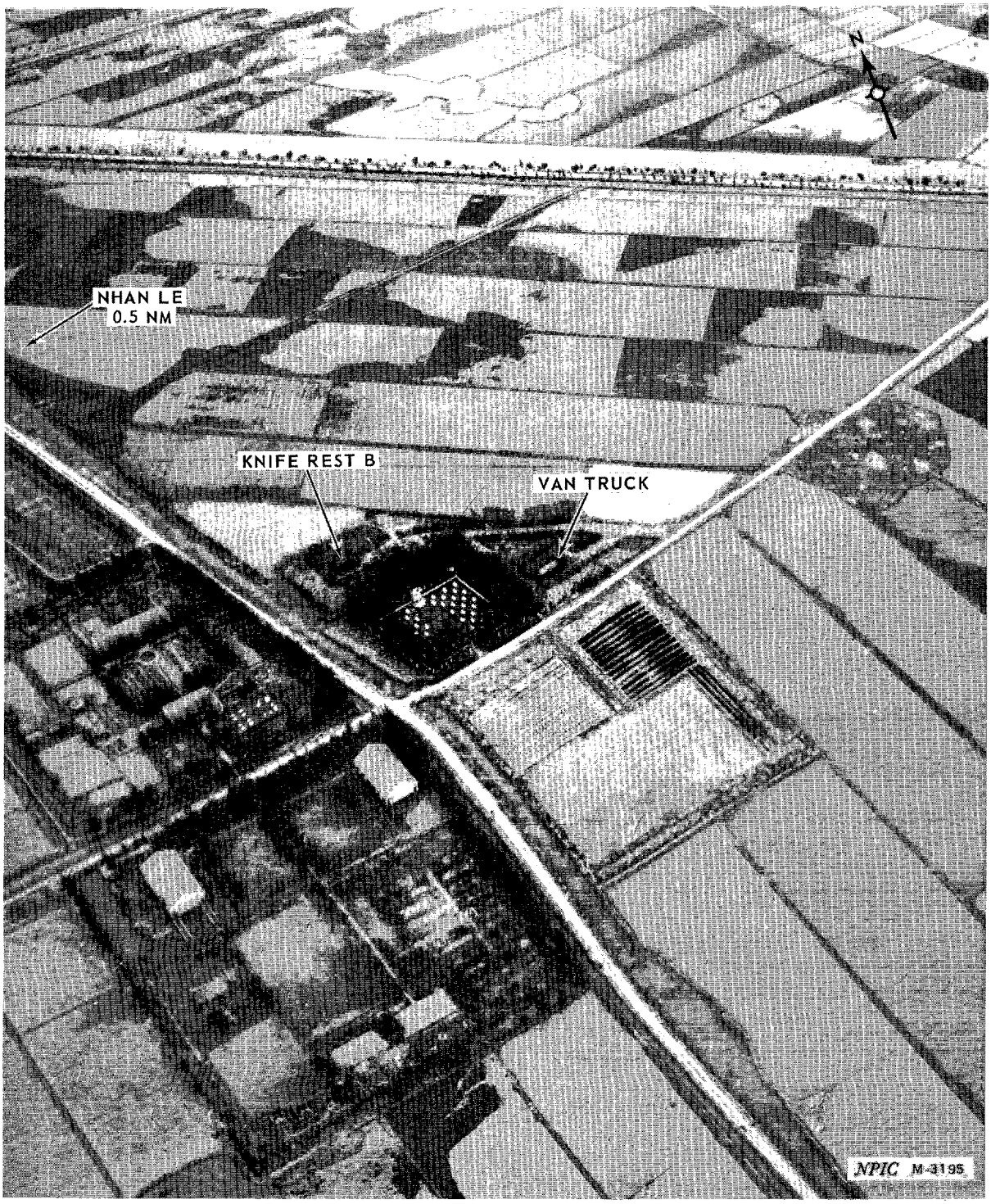
NHAN LE RADAR

XJ411202
UTM COORDINATES

20-58N 106-21E
GEOGRAPHIC COORDINATES



BE NUMBER	WJ808208 UTM COORDINATES	20-59N 105-46E GEOGRAPHIC COORDINATES

NAME: HANOI RADAR (NGOC TRUC)

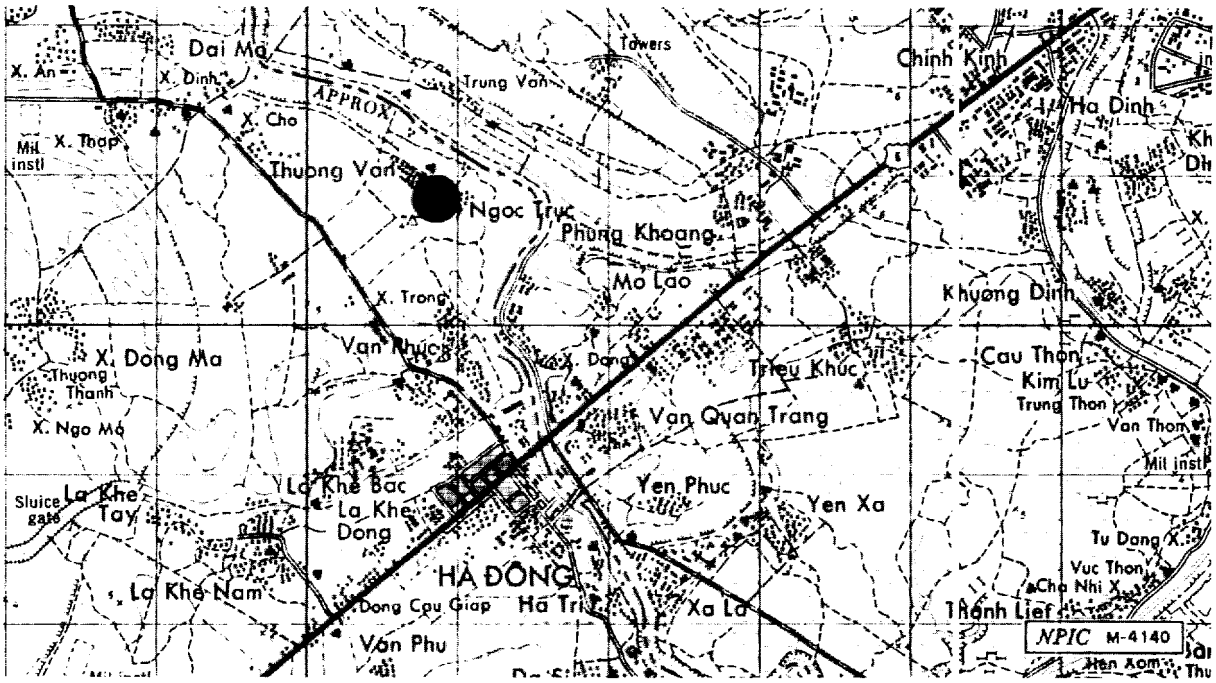
LOCATION: VILLAGE OF NGOC TRUC 3.4 NM WEST OF HANOI/BAC MAI AIRFIELD

DESCRIPTION: FACILITY CONSISTS OF ONE KNIFE REST "B" AIR SEARCH RADAR AND ONE VAN TRUCK.

25X1D

PHOTO REFERENCES: [redacted]

MAP REFERENCES: AMS SERIES L7014, SHEET 6150 I, 1ST ED, 1965
AMS SERIES L1501, SHEET NF 48-15



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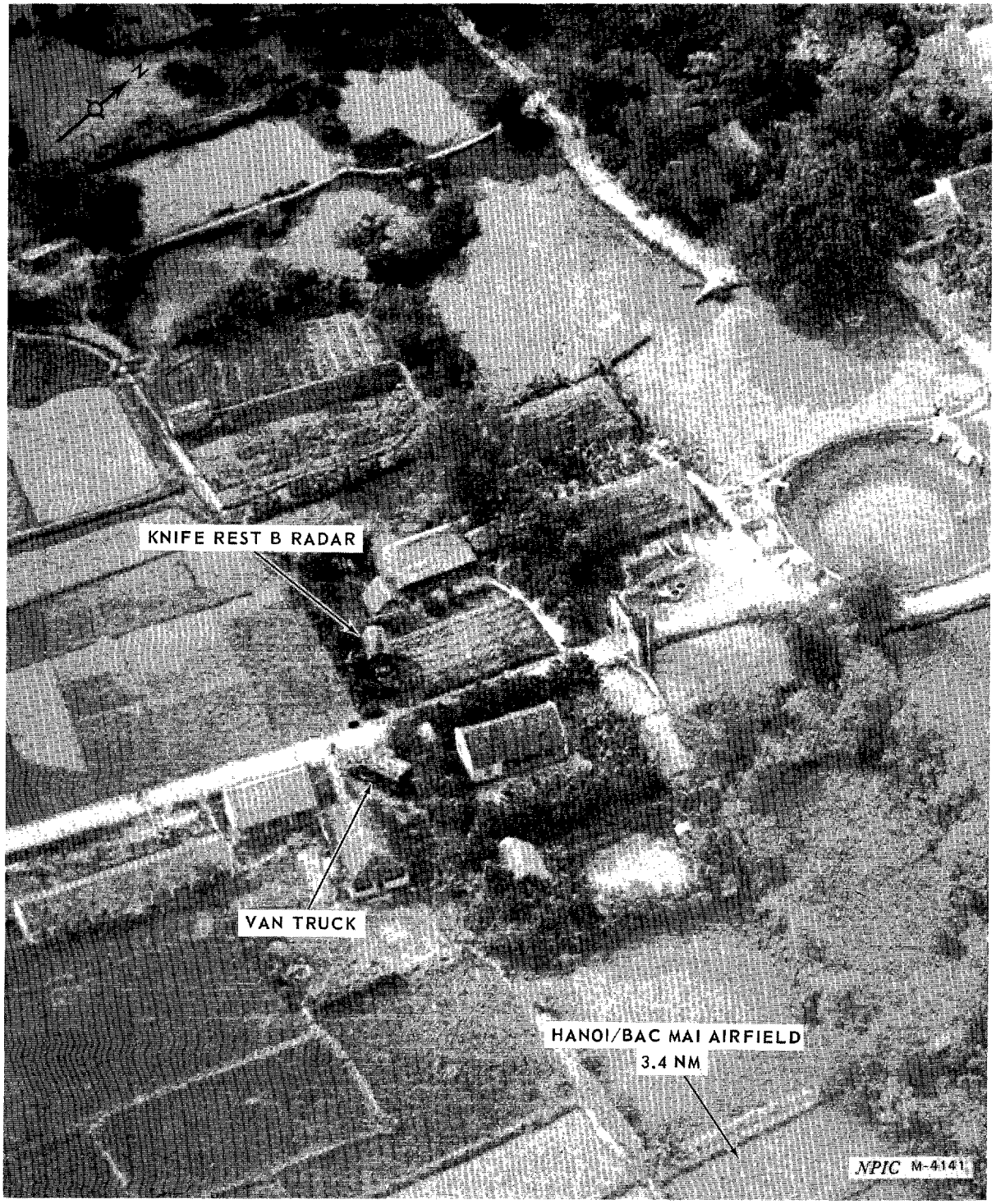
HANOI RADAR (NGOC TRUC)

WJ808208
UTM COORDINATES

29-59N 105-46E
GEOGRAPHIC COORDINATES



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